WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 2, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—**Alnwick Castle**, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—**Bawtry** (Hesley Hall), Nottingham, Loughborough Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	53	30	48	38	43	4 above.	4	5	0 (average).	18	38
	2. ENGLAND, N.E.	53	30	47	37	42	3 above.	3	3	3 less.	15	29
	3. ENGLAND, E.	52	32	45	36	41	2 above.	4	3	2 less.	5	10
	4. MID. COUNTIES	54	29	47	36	42	2 above.	4	5	2 less.	8	15
	5. ENGLAND, S.	51	31	47	39	43	2 above.	2	6	1 less.	3	6
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	52	32	48	41	44	4 above.	5	17	0 (average).	10	21
	7. ENGLAND, N.W.	54	39	49	38	43	2 above.	5	10	2 more.	4	8
	8. ENGLAND, S.W.	53	35	50	43	47	3 above.	4	12	2 more.	13	23
	9. IRELAND, N.	53	28	49	38	43	2 above.	3	9	2 more.	14	28
	10. IRELAND, S.	55	33	51	41	46	4 above.	5	13	2 more.	17	32

General Remarks.

Weather has been cloudy or dull everywhere; but while it was comparatively dry at our eastern and south-eastern stations, in all the south-western and western parts of the Kingdom it was unsettled and rainy.

Temperature has been above the mean in all districts, the excess in "Ireland, S." and over Scotland being as much as 4°. Readings, although lower over central and eastern England than elsewhere, were rather uniform. Very little frost occurred in any part of the country, the lowest reading (28°) being registered at Markree on December 28th. The maxima were lowest (51°) over "England, S." and highest (55°) in "Ireland, S."

Rainfall has been rather less than the mean in the "Wheat-producing Districts," and a little more than the mean in the Grazing Districts.

Bright sunshine percentages show a slight increase in most places, but are still low, varying from 6 in "England, S." and 8 in "England, N.W." to 38 in "Scotland, E."

Depressions observed.—During the whole of this period the barometer has been highest over the southern portion of our area and lowest to the northward and north-westward. Several depressions, none of which, however, were very serious, have passed in a northerly or north-easterly direction over, or outside, our western and northern coasts. Southerly to westerly winds have been general, and, though moderate to fresh on most days, they rose to a slight gale in the W. on the 29th, and to a fresh to strong gale in several parts of the Kingdom on January 2nd.

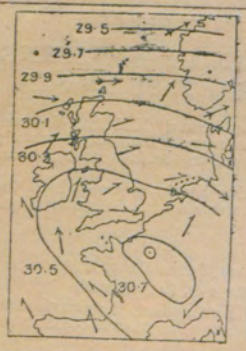
R 60. 400.—1/82. Wt. 14790. E. & S.

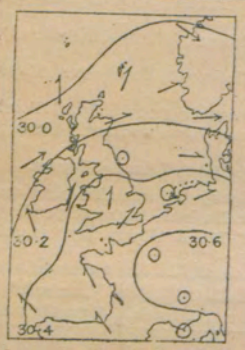
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending January 2, 1882.

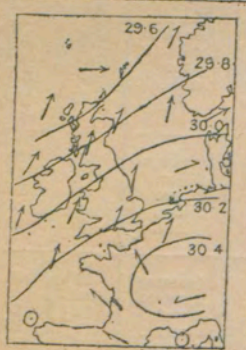
Synoptic Weather Charts.—8 a.m.

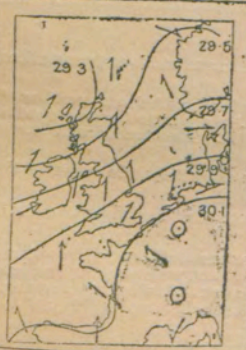
BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 27, 1881.

Weather fine at most of the more eastern stations, as well as on our S.W. coasts and in the W. of France; cloudy elsewhere, with fog in some places and rain in the extreme N. Fine except in extreme N. all day.

Temperature fallen somewhat; readings uniform, ranging from 50° at Valencia and Wick to 38° at Nottingham. Maxima between 44° and 53°, but night cold in Scotland.

Wind easterly over France, drawing from S. into W. on our coasts, westerly over the whole of Scandinavia. Light or moderate in force in the S., but rising to a gale in N. Scotland and in Norway. Falling lighter later.

Sea rough round our northern and on the Norwegian coasts.

Barometer rising, except in the W. of France and on our S.W. coasts. Anticyclone (readings 30·7 inches) lying over France, with large depression in N. Norway. Barometer falling in S.W. later; little other change.

Wednesday, December 28.

Weather cloudy, misty, and foggy generally, but fine in E. Scotland and W. France. Very little change later, fog and mist continuing but scarcely any rain falling.

Temperature fallen a few degrees generally, and quickly in the N.E.; readings ranging from 52° at Valencia to 31° at York. Maxima (low over the E. of England) varying from 55° at Valencia to 38° at York.

Wind between S.E. and S.W. and light or moderate in force over these Islands and France, but strong from W. or N.W. over Scandinavia. Increasing to a strong breeze in Ireland later.

Sea rough at Valencia and off Norway.

Barometer rising fast in Sweden and N. Norway, falling elsewhere. Anticyclone, now 30·6 ins., still shown over France, but depression in extreme N. passing away. Steady continuous fall in progress during day.

Thursday, December 29.

Weather cloudy and foggy in nearly all places with rain in Ireland and the Shetlands. Clearing in the S.E. later in day, but remaining dull generally, with rather heavy rain in the N.W.

Temperature risen at most stations—quickly in Scotland, readings ranging from 52° at Valencia to 38° on our E. coast. Maxima varying between 44° and 54°.

Wind southerly and south-westerly generally, light in force in the S.E., fresh or strong in the W. and N.W. Moderate to fresh south-westerly breezes holding all day.

Sea rough in the W. and N.

Barometer falling briskly everywhere. Anticyclone, now 30·4 ins., still lying over France with large area of low pressure in the extreme N.W. Falling slowly all day.

Friday, December 30.

Weather fine in the E. of England and in parts of France, cloudy in most other places, with rain at Mullaghmore and Pembroke. Fair during latter part of day.

Temperature fallen somewhat; readings ranging from 51° at Scilly to 40° at Cambridge. Maxima between 48° and 52°, but night rather cold in N.

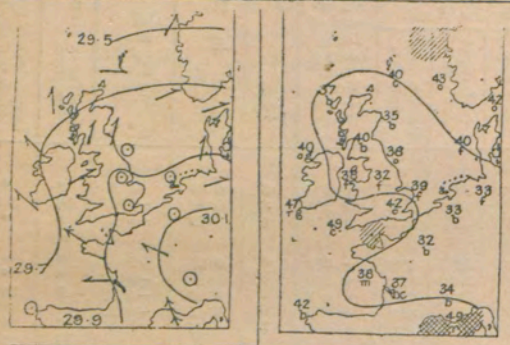
Wind south-westerly and southerly on all our coasts, varying from a light breeze in the S.E. to a strong breeze in the W. Little change later, but wind lighter.

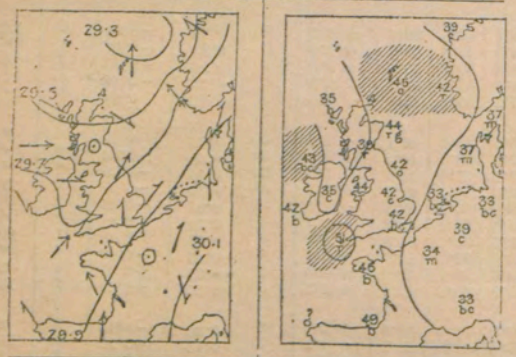
Sea rough in the S.W. and off the W. of Norway.

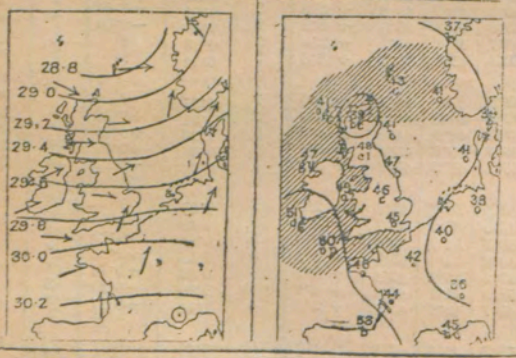
Barometer falling everywhere. Anticyclone, now 30·2 ins., shown in S. France, with depressions off the N.W. of Scotland and over Sweden, Scotch depression subsequently moving away, and mercury rising in W. and N.W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 31.

Weather fine over Scotland, a large part of France, and the S.E. of England; cloudy or dull in most other places, with rain at Valencia and Prawle Point. Rain subsequently falling except over S., S.E., and central England.

Temperature risen over France, but fallen generally,—several degrees over Ireland, Scotland, and the N. of England. Rising during day, and maxima between 43° and 53°.

Wind south-easterly over France and our S. and S.W. coasts, but drawing into S. and S.W. over the northern parts of the Kingdom and in Scandinavia. Moderate in force generally.

Sea rough at Prawle Point, Toulon, and Christiansund.

Barometer falling over all the southern and rising over the northern part of our area. Anticyclone over E. France, with large depression in N. Norway, and smaller one approaching our S.W. coasts. Falling during day,—briskly in S.W.

Sunday, January 1, 1882.

Weather fine in Ireland, the S.E. of England, and S.W. of France, dull in most other districts, with rain in several places. Heavy rain falling in the S.E. later.

Temperature fallen in Ireland, risen elsewhere; readings ranging from 51° at Scilly to 35° at Stornoway. Maxima varying between 41° and 53°.

Wind westerly in the extreme W., southerly on most other coasts; light to fresh in force. Veering to W. in most parts of the country later in day.

Sea rough at Scilly, Mullaghmore, and the Shetlands.

Barometer rising slightly in the W. and S.W., and quickly in Scandinavia, falling elsewhere. Pressure highest in E. France, with a depression to the northward of Scotland, and a second over the Bristol Channel. Rising in W. and falling in E. later.

Monday, January 2.

Weather fine on our north-eastern and south-eastern coasts, dull generally with some rain and mist. Dull all day with rain in evening.

Temperature risen except in the N.E.; readings ranging from 51° at Valencia to 39° at Wick. High all day, and maxima, except in Scotland, varying between 49° and 53°.

Wind westerly all over the country, blowing freshly or strongly generally. Backing somewhat later and rising to a gale in the W. and S.

Sea rough W., S., and N.

Barometer rising in France, falling elsewhere; as high as 30·2 ins. over France, and as low as 28·7 ins. to the northward of Scotland. Fresh fall and depression appearing in W. later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	49	39	47·1	42·4	44·8	+4·8	7	1·11	+0·40	*	*
	Stornoway	50	33	46·0	39·0	42·5	+2·5	7	2·42	+1·09	7	16
	Wick	50	36	45·7	39·9	42·8	+3·0	3	0·19	−0·46	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	44	52·6	46·7	49·7	+3·7	4	0·67	−0·38	*	*
	Jersey (Noirmont)	50	36	45·7	37·6	41·7	−2·8	2	0·72	−0·07	17	30

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	52	34	47·0	39·9	43·5	+ 4·2	5	0·68	+0·18	*	*
	Aberdeen	52	30	47·9	34·4	41·2	+ 2·4	3	0·37	−0·27	18	38
	Leith	53	30	50·3	38·7	44·5	+ 5·5	4	0·55	+0·15	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	33	47·0	38·7	42·9	+ 3·9	4	0·37	?	*	*
	Shields	52	36	49·0	39·0	44·0	+ 5·0	3	0·17	−0·42	*	*
	Durham	50	34	47·1	38·1	42·6	+ 4·2	4	0·20	−0·42	15	30
	York	53	30	46·9	33·7	40·3	+ 1·4	4	0·42	−0·12	*	*
	Spurn Head	51	32	44·6	35·4	40·0	+ 1·5	2	0·25	?	14	27
	Brigg‡ ⚓											
3. ENGLAND, E.	Hillington ⚓	50	34	44·7	35·9	39·8	+ 0·8	5	0·36	−0·20	6	12
	Yarmouth	50	34	44·3	36·3	40·3	+ 1·4	2	0·23	−0·47	*	*
	Geldeston	50	34	44·9	36·1	40·5	+ 1·5	3	0·26	−0·25	4	8
	Cambridge	52	32	46·1	36·3	41·2	+ 2·8	2	0·26	−0·14	6	11
	Rothamsted	50	34	45·2	36·7	41·0	+ 1·6	6	0·61	0·00	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	32	46·7	33·4	40·1	+ 1·2	4	0·33	−0·17	*	*
	Nottingham	52	32	47·6	36·3	42·0	+ 3·0	5	0·34	−0·36	*	*
	Loughborough	51	30	47·4	37·6	42·5	+ 3·0	3	0·44	−0·09	*	*
	Leicester	51	34	47·0	36·6	41·8	+ 1·9	4	0·46	−0·07	9	17
	Birmingham (Oscott)	52	33	46·9	36·1	41·5	+ 1·5	3	0·37	−0·18	*	*
	Cheadle ⚓	50	32	45·4	34·1	39·8	− 0·7	6	0·59	?	*	*
	Churchstoke ⚓	53	29	48·5	35·2	41·9	+ 0·9	4	0·57	?	11	21
	Hereford ⚓	53	31	48·2	35·2	41·7	+ 0·7	4	0·24	−0·49	*	*
	Cirencester	50	35	45·6	38·1	41·9	+ 1·4	3	0·83	+0·03	4	8
	Oxford	52	36	47·9	39·6	43·8	+ 4·3	3	0·35	−0·20	7	13
5. ENGLAND, S.	London†	51	33	47·0	38·0	42·5	+ 2·4	2	0·48	−0·13	1	2
	Marlborough ⚓	49	34	45·8	37·5	41·7	+ 1·1	3	0·64	−0·16	7	15
	Strathfield Turgiss ⚓	51	31	47·0	36·7	41·9	+ 0·9	4	0·64	+0·04	*	*
	Dover	49	37	46·0	40·0	43·0	+ 2·9	2	0·34	−0·46	*	*
	Hastings (St. Leonard's)	49	37	46·6	40·6	43·6	+ 3·1	2	0·40	−0·30	*	*
	Southampton	51	36	47·7	40·5	44·1	+ 2·6	2	0·85	?	1	2
	Hurst Castle	50	40	48·4	42·1	45·3	+ 3·3	2	0·58	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	52	37	48·9	40·8	44·9	+ 4·6	7	4·07	?	*	*
	Glasgow	51	33	47·3	38·6	43·0	+ 4·0	6	1·51	+0·40	6	13
	Ardrossan	49	37	47·3	41·9	44·6	+ 4·6	5	1·22	+0·19	*	*
	Silloth (Cumberland)	49	32	46·6	40·5	43·6	+ 4·4	4	0·96	+0·17	11	22
	Douglas (Isle of Man)	51	33	49·7	41·5	45·6	+ 4·1	4	0·56	−0·72	14	27
7. ENGLAND, N.W.	Barrow-in-Furness	50	36	46·6	38·7	42·7	+ 2·3	5	0·95	?	*	*
	Stonyhurst	50	33	46·3	37·0	41·7	+ 1·5	5	1·29	+0·20	5	10
	Blackpool ⚓	51	30	46·5	34·1	40·3	− 0·6	5	0·94	+0·19	*	*
	Manchester	51	32	46·3	35·1	40·7	+ 1·2	5	1·02	+0·23	*	*
	Liverpool Obsy (Bidston)	54	31	49·1	35·1	42·1	+ 1·5	3	0·63	+0·14	*	*
	Llandudno ⚓	53	36	52·0	41·7	46·9	+ 4·9	5	1·10	+0·29	3	6
	Holyhead	51	37	49·7	41·7	45·7	+ 3·5	4	1·14	+0·17	*	*
8. ENGLAND, S.W.	Pembroke	52	38	50·3	44·0	47·2	+ 4·7	6	1·21	+0·16	14	26
	Arlington (N. Devon)	51	35	48·3	38·9	43·6	+ 1·1	3	1·79	?	*	*
	Falmouth	52	40	50·7	43·6	47·2	+ 2·2	4	1·25	+0·25	17	30
	Plymouth	53	38	51·3	43·3	47·3	+ 2·8	4	0·85	−0·20	7	13
	Prawle Point	53	37	50·7	43·9	47·3	+ 2·3	3	0·98	?	*	*
9. IRELAND, N.	Londonderry	53	40	49·7	41·7	45·7	+ 4·7	6	1·26	?	*	*
	Mullaghmore	52	28	49·3	33·8	41·6	− 0·3	5	0·69	−0·02	12	24
	Markree Castle	50	29	48·3	36·1	42·2	+ 1·2	6	1·06	?	*	*
	Brookeborough	51	35	49·0	38·5	43·8	+ 1·7	5	0·86	+0·16	16	31
	Armagh	52	34	49·1	38·0	43·6	+ 2·6	4	0·54	?	*	*
	Donaghadee											
10. IRELAND, S.	Dublin	54	34	51·9	39·9	45·9	+ 3·9	4	0·66	+0·10	21	40
	Parsonstown	52	33	49·9	37·1	43·5	+ 2·4	5	0·81	+0·03	16	31
	Waterford	53	36	51·6	42·4	47·0	+ 4·0	6	1·31	−0·08	*	*
	Roche's Point	55	40	52·9	44·9	48·9	+ 5·9	7	2·37	+0·87	13	25
	Valencia	53	37	49·9	39·6	44·8	+ 2·8	4	1·21	?	*	*
	Foynes											

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

(Signed) ROBERT H. SCOTT,
Secretary.

Meteorological Office,
116, Victoria Street, S.W.

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2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	53	29	45	33	39	1 above.	5	8	3 more.	23	49
	2. ENGLAND, N.E.	53	32	47	37	42	4 above.	4	3	3 less.	14	28
	3. ENGLAND, E.	54	31	48	37	42	4 above.	4	8	3 more.	15	28
	4. MID. COUNTIES	60	30	49	37	43	5 above.	4	8	1 more.	19	35
	5. ENGLAND, S.	53	32	49	38	44	4 above.	4	6	1 less.	17	30
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	53	33	46	37	42	3 above.	6	19	3 more.	8	15
	7. ENGLAND, N.W.	55	34	48	39	44	4 above.	6	11	3 more.	9	17
	8. ENGLAND, S.W.	54	32	50	41	45	4 above.	7	12	1 more.	16	28
	9. IRELAND, N.	54	33	46	37	42	2 above.	7	11	4 more.	11	21
	10. IRELAND, S.	55	33	49	39	44	2 above.	6	13	2 more.	17	32

General Remarks.

Weather has been dull and unsettled with frequent falls of rain. In some places hail or slight snow showers were experienced, and at some of our extreme north-western stations thunder and lightning.

Temperature has again been above the mean in all districts, the excess varying from 1° in "Scotland, E." to 5° in the "Midland Counties." The maxima were generally registered on the 5th or 6th, and varied in most districts from 53° to 55°, but at Nottingham on the latter day the thermometer reached 60°.

Rainfall has been a little more than the mean in all districts except "England, N.E." and "England, S."

Bright sunshine shows an increase over the greater part of England and the E. of Scotland, but a decrease elsewhere. The percentages varied from 15 in "Scotland, W." to 35 in the "Midland Counties" and 49 in "Scotland, W."

Depressions observed.—During the whole of this period the barometer has been highest over France and lowest in the western and north-western parts of our area. Several depressions have passed over us in a north-easterly direction, some of them, notably that of the 6th, being deep. The wind was generally moderate or fresh from S.W. or W., but increased at times to a gale on our western and northern coasts. The gale experienced over Scotland on the 6th was exceptionally severe and at Ardrossan is reported to have reached the force of a hurricane.

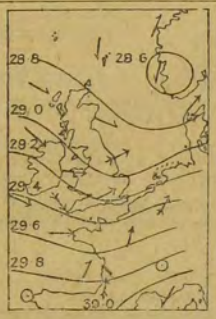
Note.—New Mean values for Temperature have now been prepared; namely, those for the 20 years 1861-80.

R 181. 460.—1/82. Wt. 14790. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 9, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.



CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, January 3.

Weather very unsettled, cloudy or dull generally, with showers of rain in several places. Clearing in the E. and S.E. later, but remaining showery and unsettled elsewhere.

Temperature fallen except in the S.E. and over France and Denmark; readings ranging from 48° at Scilly, to 35° at Wick. Maxima low, varying between 36° and 49°, and following night slightly frosty.

Wind north-westerly and westerly on most of our own and the French coasts, but drawing into S.W. on the eastern shores of the North Sea. Fresh or strong except in Scotland. Little change later, but force decreasing somewhat.

Sea rough in the W. and S., and off Norway.

Barometer rising in W. Ireland, falling in all other places. Pressure highest in the S.E. of France and lowest in N. Norway, but several small depressions passing across. Increase in W. spreading to all coasts later.

Wednesday, January 4.

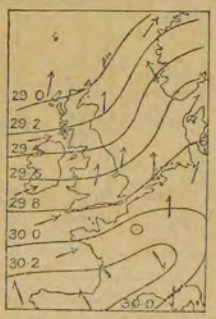
Weather dull in Ireland and snow falling in the Shetlands and at Christiansund, but fine and bright elsewhere. Fine all day in the S.E., but rainy weather setting in in the W. later.

Temperature fallen several degrees; readings ranging from 47° at Scilly, to 31° at Wick. Rising briskly in W. later, and maxima ranging from 42° in the N., to 53° at Valencia. Night again cold in E.

Wind westerly to north-westerly on most of our own and the French coasts. Wind backing to the southward in the W. and N. later, and blowing freshly or strongly.

Sea rough in the S.W., and at Christiansund and Toulon.

Barometer rising quickly everywhere; depression passing away northward, and large area of high pressure forming in the S.W. Mercury falling in the W. subsequently, and depression appearing.



Thursday, January 5.

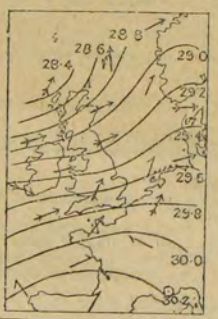
Weather cloudy or dull generally with rain, fog, or mist in several places. Cloudy and showery till evening when sky clearing in many districts.

Temperature risen briskly in nearly all places and ranging from 53° at Valencia to 42° at Wick and Yarmouth. Warm all day and maxima except in Scotland varying between 48° and 55°.

Wind westerly to south-westerly on most of our own and the French coasts and southerly to south-easterly over the North Sea. Fresh or strong in force generally and reaching a gale in the N.W. and N.E. later.

Sea rough W. and S., and off the Norwegian coast.

Barometer falling generally; large depression shown in north, with anticyclone over France. Depression passing north-eastward later and barometer rising generally.



Friday, January 6.

Weather very unsettled; sky clear at some Scotch stations and in N. Ireland, dull and rainy in most other places. Fine in the E. and N. in the evening but dull and very showery in west.

Temperature risen somewhat over France and Great Britain, fallen in Ireland; readings ranging from 53° at Scilly to 43° in the Hebrides. Falling during day and following night cold.

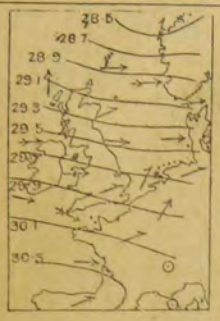
Wind south-westerly on nearly all our coasts; blowing a gale all over the more northern and western parts of the Kingdom and strongly generally. Exceedingly severe westerly gale blowing in the N. all day.

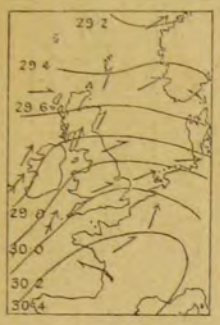
Sea very rough in the W. and rough in the S.W. and S. and off Norway.

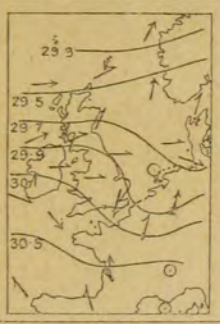
Barometer falling except in France; decrease in Hebrides exceeding half an inch and large depression advancing towards Scotland. Disturbance passing east north-eastward and barometer rising in W. later in day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, January 7.

Weather cloudy with hail or sleet showers in the extreme W. and N.; fine in most of our other districts as well as over N. Germany and Denmark. Little change during day, hail and rain continuing in W.

Temperature fallen generally—very quickly over England; readings ranging from 46° at Scilly to 35° at Wick. Rising during day, but change slight.

Wind westerly or west-north-westerly on our own and the French coasts and over the North Sea, blowing strongly generally and reaching a gale at Scilly. Westerly strong winds holding all day.

Sea rough in the W., S., and N.

Barometer rising over the whole of Western Europe—the change being considerable in the N.W. Rising briskly all day, and depression noticed on the 6th disappearing in the N.

Sunday, January 8.

Weather dull and rainy in Ireland and the W. of England, fine in the E. and S.E. and over the W. of France, cloudy elsewhere. Rain extending to all but the Scotch stations later.

Temperature risen except in the extreme S.E.; readings ranging from 52° at Valencia to 38° at Cambridge. Maxima varying between 39° and 53°.

Wind south-westerly all over the country, increasing in force from a light breeze in the S.E. to a strong gale in S. Ireland. South-westerly and westerly winds and gales blowing all day in the S.

Sea rough in the S.W., W., and N.

Barometer rising in most parts of our area, but brisk fall taking place in Ireland and subsidiary depression approaching that country. Depression passing eastward later, barometer falling in S., and rising in W.

Monday, January 9.

Weather again fine in most places, but showery and dull in the W. Fine all day except in the W. and N.

Temperature fallen a few degrees, and readings ranging from 49° at Scilly to 35° at Wick and 36° at Nottingham. Maxima varying between 51° at Valencia and 43° in the N.E.

Wind westerly and north-westerly, moderate or fresh in force generally. Westerly winds holding all day, light in the E., but rather strong in the W.

Sea rough S.W., W., and N.

Barometer falling at our northern and south-eastern stations as well as over the Continent generally, rising elsewhere. Pressure highest in the S. of France, with large depression in N. Norway, and small depression over the North Sea. Increasing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	47	31	43·1	35·3	39·2	−0·9	7	1·51	+0·81	*	*
	Stornoway	49	32	43·7	33·7	38·7	−0·2	7	2·08	+0·77	4	9
	Wick	45	30	40·9	32·9	36·9	−1·6	6	1·16	+0·58	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	42	51·0	44·7	47·9	+2·2	7	0·76	−0·35	*	*
	Jersey (Noirmont)	52	41	49·9	43·9	46·9	+4·6	7	0·68	−0·08	21	36

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	49	29	43·4	32·7	38·1	− 0·2	6	1·06	+0·56	*	*
	Aberdeen	52	29	43·9	32·4	38·2	+ 1·1	3	0·38	−0·27	23	49
	Leith	53	31	46·6	35·0	40·8	+ 2·9	6	0·80	+0·39	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	33	45·0	35·7	40·4	+ 3·1	4	0·26	?	*	*
	Shields	52	33	47·0	37·0	42·0	+ 3·9	5	0·19	−0·32	*	*
	Durham	53	32	46·1	34·7	40·4	+ 3·3	4	0·21	−0·35	18	36
	York	53	34	48·1	37·1	42·6	+ 4·3	5	0·44	−0·06	?	?
	Spurn Head	52	35	46·4	37·9	42·2	+ 4·7	4	0·17	?	*	*
	Brigg‡ ℔										10	19
3. ENGLAND, E.	Hillington ℔	52	33	47·7	37·5	42·6	+ 4·9	4	0·76	+0·26	12	23
	Yarmouth	52	31	46·4	36·6	41·5	+ 3·4	3	0·88	+0·23	*	*
	Geldeston	52	32	48·5	36·9	42·7	+ 4·5	4	0·89	+0·44	18	33
	Cambridge	54	32	49·6	36·0	42·8	+ 4·2	4	0·85	+0·45	?	?
	Rothamsted	51	33	48·4	36·1	42·3	+ 4·5	6	0·78	+0·10	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)										*	*
	Nottingham	60	32	50·1	36·6	43·4	+ 5·3	4	0·33	−0·27	*	*
	Loughborough	53	35	48·4	38·8	43·6	+ 5·4	3	0·74	+0·19	*	*
	Leicester	52	30	47·8	36·0	41·9	+ 3·8	4	0·81	+0·37	15	28
	Birmingham (Oscott)	53	32	48·1	35·6	41·9	+ 5·0	4	0·92	+0·22	*	*
	Cheadle ℔	51	33	46·8	35·2	41·0	+ 3·8	4	0·70	?	*	*
	Churchstoke ℔	52	32	48·0	36·1	42·1	+ 3·8	6	1·01	?	17	32
	Hereford ℔	55	34	49·5	37·4	43·5	+ 4·7	4	0·64	−0·16	*	*
	Cirencester	52	31	48·3	35·5	41·9	+ 3·6	5	1·18	+0·30	21	39
	Oxford	53	34	49·1	38·6	43·9	+ 5·1	3	0·74	+0·16	21	39
5. ENGLAND, S.	London†	53	33	49·4	38·1	43·8	+ 4·7	3	0·66	+0·03	13	23
	Marlborough ℔	51	30	48·0	35·6	41·8	+ 3·4	5	0·89	+0·08	19	34
	Strathfield Turgiss ℔	53	32	49·6	35·9	42·8	+ 3·7	4	0·60	−0·08	*	*
	Dover	50	36	47·3	40·4	43·9	+ 4·4	4	0·38	−0·42	*	*
	Hastings (St. Leonard's)	51	32	48·3	38·6	43·5	+ 4·2	4	0·43	−0·30	*	*
	Southampton	53	34	49·7	38·7	44·2	+ 4·2	5	0·65	?	19	34
	Hurst Castle	51	35	49·3	40·9	45·1	+ 4·6	6	0·63	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	53	34	47·1	36·6	41·9	+ 2·8	7	4·15	?	*	*
	Glasgow	50	33	45·1	35·2	40·2	+ 2·2	7	1·40	+0·19	2	4
	Ardrossan	50	34	46·0	37·4	41·7	+ 2·6	6	1·46	+0·35	*	*
	Silloth (Cumberland)	50	33	44·8	38·8	41·8	+ 3·0	5	1·02	+0·14	6	12
	Douglas (Isle of Man)	53	36	47·2	38·9	43·1	+ 3·2	5	1·59	+0·34	15	29
7. ENGLAND, N.W.	Barrow-in-Furness	49	39	46·0	40·0	43·0	+ 3·0	5	1·62	?	*	*
	Stonyhurst	50	35	46·3	37·2	41·8	+ 3·3	6	1·87	+0·81	11	21
	Blackpool ℔	50	38	46·8	40·4	43·6	+ 3·4	7	1·05	+0·30	*	*
	Manchester	52	34	47·2	36·4	41·8	+ 3·1	6	1·44	+0·69	*	*
	Liverpool Obsy (Bidston)	54	38	49·1	40·1	44·6	+ 4·9	5	0·46	−0·08	*	*
	Llandudno ℔	55	39	50·1	40·4	45·3	+ 4·2	6	0·55	−0·34	7	13
	Holyhead	51	40	48·6	41·6	45·1	+ 3·4	4	0·78	−0·18	*	*
8. ENGLAND, S.W.	Pembroke	51	41	49·1	43·9	46·5	+ 5·0	6	1·69	+0·59	19	35
	Arlington (N. Devon)	50	34	47·4	38·3	42·9	+ 3·2	7	2·15	?	*	*
	Cullompton	54	32	49·8	38·1	44·0	+ 3·6	7	0·94	?	14	24
	Falmouth	52	40	50·2	42·8	46·5	+ 3·0	7	1·12	+0·12	16	28
	Plymouth	53	37	50·7	41·5	46·1	+ 3·8	6	0·63	−0·48	14	24
	Prawle Point	53	35	49·6	40·1	44·9	+ 3·8	6	0·61	?	*	*
9. IRELAND, N.	Londonderry										*	*
	Mullaghmore	53	38	47·1	40·1	43·6	+ 3·3	7	1·60	?	*	*
	Markree Castle	52	33	47·9	36·1	42·0	+ 1·8	6	0·75	+0·02	11	21
	Brookeborough	54	33	45·5	35·6	40·6	+ 1·5	7	1·52	?	*	*
	Armagh	50	33	45·2	35·7	40·5	+ 0·9	7	0·87	+0·17	11	21
	Donaghadee	52	33	45·7	35·4	40·6	− 0·1	6	0·66	?	*	*
10. IRELAND, S.	Dublin	54	35	49·4	38·1	43·8	+ 3·3	5	0·27	−0·34	22	42
	Parsonstown	53	33	47·0	36·0	41·5	+ 2·0	6	1·03	+0·23	17	32
	Waterford										*	*
	Roche's Point	51	36	49·6	38·9	44·3	+ 2·2	6	2·25	+0·80	*	*
	Valencia	55	38	51·1	40·6	45·9	+ 0·9	6	1·92	+0·32	12	22
	Foynes	54	36	49·3	39·1	44·2	+ 3·3	7	1·14	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

NOTE.—Cullompton has now been added to the list of stations in "England, S.W."

ERRATUM.—On page 1 in Report for week ending December 26th, 1881 the "Mean for each Day" in "England, S.W." should read "42."

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

METEOROLOGICAL OFFICE,
116, VICTORIA STREET, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 16, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	57	29	49	40	44	7 above.	1	1	5 less.	7	14
	2. ENGLAND, N.E.	50	35	45	39	42	5 above.	1	less than ½	4 less.	4	8
	3. ENGLAND, E.	52	32	45	38	41	4 above.	2	less than ½	5 less.	4	7
	4. MID. COUNTIES	56	32	46	38	42	4 above.	2	1	5 less.	3	5
	5. ENGLAND, S.	54	32	47	40	43	4 above.	3	1	7 less.	2	3
Principal Grazing &c. Districts.	6. SCOTLAND, W.	53	33	49	44	46	8 above.	4	5	9 less.	1	1
	7. ENGLAND, N.W.	50	35	46	41	43	4 above.	4	2	6 less.	2	4
	8. ENGLAND, S.W.	54	31	49	43	46	5 above.	3	2	9 less.	3	5
	9. IRELAND, N.	56	37	51	45	48	8 above.	3	2	5 less.	3	6
	10. IRELAND, S.	57	36	53	45	49	7 above.	4	5	7 less.	4	7

General Remarks.

Weather, though very free from rain, has been exceedingly gloomy with much mist or fog.

Temperature has continued above the mean, the excess varying from 4° over the greater part of England to 7° or 8° in Ireland and Scotland. The maxima were very high for the season, the thermometer rising to 57° at Dublin on the 14th, and to the same height at Nairn on the 15th. At most other stations the highest readings varied from 50° to 56°. Temperature fell to a little below freezing point in "England, S.W." and "Scotland, E."

Rainfall has been very slight everywhere, and in the "Wheat-producing Districts" was scarcely appreciable.

Bright sunshine shows a great decrease in all places and was very deficient, the percentages ranging from 14 in "Scotland, E." to 1 in "Scotland, W."

Depressions observed.—At the commencement of the period a depression of considerable depth and magnitude was travelling in an east-north-easterly direction off the N. coast of Scotland, while the barometer was highest over France. The wind consequently varied from a strong westerly or west-south-westerly gale at our northern stations to a moderate or fresh west south-westerly breeze in the S. As this disturbance passed away pressure, with very slight interruptions, continued to increase steadily with moderate or light south-westerly breezes, and on the 16th the mercury had reached the exceptional height of 30·9 ins. on our S.E. coast and 30·5 ins. to the northward of Scotland.

R 287. 460.—1/82. Wt. 14790. E. & S.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	49	29	43·4	32·7	38·1	− 0·2	6	1·06	+0·56	*	*
	Aberdeen	52	29	43·9	32·4	38·2	+ 1·1	3	0·38	−0·27	23	49
	Leith	53	31	46·6	35·0	40·8	+ 2·9	6	0·80	+0·39	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	33	45·0	35·7	40·4	+ 3·1	4	0·26	?	*	*
	Shields	52	33	47·0	37·0	42·0	+ 3·9	5	0·19	−0·32	*	*
	Durham	53	32	46·1	34·7	40·4	+ 3·3	4	0·21	−0·35	18	36
	York	53	34	48·1	37·1	42·6	+ 4·3	5	0·44	−0·06	?	?
	Spurn Head	52	35	46·4	37·9	42·2	+ 4·7	4	0·17	?	*	*
	Brigg‡ ⁂										10	19
3. ENGLAND, E.	Hillington ⁂	52	33	47·7	37·5	42·6	+ 4·9	4	0·76	+0·26	12	23
	Yarmouth	52	31	46·4	36·6	41·5	+ 3·4	3	0·88	+0·23	*	*
	Geldeston	52	32	48·5	36·9	42·7	+ 4·5	4	0·89	+0·44	18	33
	Cambridge	54	32	49·6	36·0	42·8	+ 4·2	4	0·85	+0·45	?	?
	Rothamsted	51	33	48·4	36·1	42·3	+ 4·5	6	0·78	+0·10	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)										*	*
	Nottingham	60	32	50·1	36·6	43·4	+ 5·3	4	0·33	−0·27	*	*
	Loughborough	53	35	48·4	38·8	43·6	+ 5·4	3	0·74	+0·19	*	*
	Leicester	52	30	47·8	36·0	41·9	+ 3·8	4	0·81	+0·37	15	28
	Birmingham (Oscott)	53	32	48·1	35·6	41·9	+ 5·0	4	0·92	+0·22	*	*
	Cheadle ⁂	51	33	46·8	35·2	41·0	+ 3·8	4	0·70	?	*	*
	Churchstoke ⁂	52	32	48·0	36·1	42·1	+ 3·8	6	1·01	?	17	32
	Hereford ⁂	55	34	49·5	37·4	43·5	+ 4·7	4	0·64	−0·16	*	*
	Cirencester	52	31	48·3	35·5	41·9	+ 3·6	5	1·18	+0·30	21	39
	Oxford	53	34	49·1	38·6	43·9	+ 5·1	3	0·74	+0·16	21	39
5. ENGLAND, S.	London†	53	33	49·4	38·1	43·8	+ 4·7	3	0·66	+0·03	13	23
	Marlborough ⁂	51	30	48·0	35·6	41·8	+ 3·4	5	0·89	+0·08	19	34
	Strathfield Turgiss ⁂	53	32	49·6	35·9	42·8	+ 3·7	4	0·60	−0·08	*	*
	Dover	50	36	47·3	40·4	43·9	+ 4·4	4	0·38	−0·42	*	*
	Hastings (St. Leonard's)	51	32	48·3	38·6	43·5	+ 4·2	4	0·43	−0·30	*	*
	Southampton	53	34	49·7	38·7	44·2	+ 4·2	5	0·65	?	19	34
	Hurst Castle	51	35	49·3	40·9	45·1	+ 4·6	6	0·63	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	53	34	47·1	36·6	41·9	+ 2·8	7	4·15	?	*	*
	Glasgow	50	33	45·1	35·2	40·2	+ 2·2	7	1·40	+0·19	2	4
	Ardrossan	50	34	46·0	37·4	41·7	+ 2·6	6	1·46	+0·35	*	*
	Silloth (Cumberland)	50	33	44·8	38·8	41·8	+ 3·0	5	1·02	+0·14	6	12
	Douglas (Isle of Man)	53	36	47·2	38·9	43·1	+ 3·2	5	1·59	+0·34	15	29
7. ENGLAND, N.W.	Barrow-in-Furness	49	39	46·0	40·0	43·0	+ 3·0	5	1·62	?	*	*
	Stonyhurst	50	35	46·3	37·2	41·8	+ 3·3	6	1·87	+0·81	11	21
	Blackpool ⁂	50	38	46·8	40·4	43·6	+ 3·4	7	1·05	+0·30	*	*
	Manchester	52	34	47·2	36·4	41·8	+ 3·1	6	1·44	+0·69	*	*
	Liverpool Obs' (Bidston)	54	38	49·1	40·1	44·6	+ 4·9	5	0·46	−0·08	*	*
	Llandudno ⁂	55	39	50·1	40·4	45·3	+ 4·2	6	0·55	−0·34	7	13
	Holyhead	51	40	48·6	41·6	45·1	+ 3·4	4	0·78	−0·18	*	*
8. ENGLAND, S.W.	Pembroke	51	41	49·1	43·9	46·5	+ 5·0	6	1·69	+0·59	19	35
	Arlington (N. Devon)	50	34	47·4	38·3	42·9	+ 3·2	7	2·15	?	*	*
	Cullompton	54	32	49·8	38·1	44·0	+ 3·6	7	0·94	?	14	24
	Falmouth	52	40	50·2	42·8	46·5	+ 3·0	7	1·12	+0·12	16	28
	Plymouth	53	37	50·7	41·5	46·1	+ 3·8	6	0·63	−0·48	14	24
	Prawle Point	53	35	49·6	40·1	44·9	+ 3·8	6	0·61	?	*	*
9. IRELAND, N.	Londonderry										*	*
	Mullaghmore	53	38	47·1	40·1	43·6	+ 3·3	7	1·60	?	*	*
	Markree Castle	52	33	47·9	36·1	42·0	+ 1·8	6	0·75	+0·02	11	21
	Brookeborough	54	33	45·5	35·6	40·6	+ 1·5	7	1·52	?	*	*
	Armagh	50	33	45·2	35·7	40·5	+ 0·9	7	0·87	+0·17	11	21
	Donaghadee	52	33	45·7	35·4	40·6	− 0·1	6	0·66	?	*	*
10. IRELAND, S.	Dublin	54	35	49·4	38·1	43·8	+ 3·3	5	0·27	−0·34	22	42
	Parsonstown	53	33	47·0	36·0	41·5	+ 2·0	6	1·03	+0·23	17	32
	Waterford										*	*
	Roche's Point	51	36	49·6	38·9	44·3	+ 2·2	6	2·25	+0·80	*	*
	Valencia	55	38	51·1	40·6	45·9	+ 0·9	6	1·92	+0·32	12	22
	Foynes	54	36	49·3	39·1	44·2	+ 3·3	7	1·14	?	*	*

Stations marked ⁂ are in connection with the Meteorological Society.

Note.—Cullompton has now been added to the list of stations in "England, S.W."

Erratum.—On page 1 in Report for week ending December 26th, 1881 the "Mean for each Day" in "England, S.W." should read "42."

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 16, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	57	29	49	40	44	7 above.	1	1	5 less.	7	14
	2. ENGLAND, N.E.	50	35	45	39	42	5 above.	1	less than ½	4 less.	4	8
	3. ENGLAND, E.	52	32	45	38	41	4 above.	2	less than ½	5 less.	4	7
	4. MID. COUNTIES	56	32	46	38	42	4 above.	2	1	5 less.	3	5
	5. ENGLAND, S.	54	32	47	40	43	4 above.	3	1	7 less.	2	3
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	53	33	49	44	46	8 above.	4	5	9 less.	1	1
	7. ENGLAND, N.W.	50	35	46	41	43	4 above.	4	2	6 less.	2	4
	8. ENGLAND, S.W.	54	31	49	43	46	5 above.	3	2	9 less.	3	5
	9. IRELAND, N.	56	37	51	45	48	8 above.	3	2	5 less.	3	6
	10. IRELAND, S.	57	36	53	45	49	7 above.	4	5	7 less.	4	7

General Remarks.

Weather, though very free from rain, has been exceedingly gloomy with much mist or fog.

Temperature has continued above the mean, the excess varying from 4° over the greater part of England to 7° or 8° in Ireland and Scotland. The maxima were very high for the season, the thermometer rising to 57° at Dublin on the 14th, and to the same height at Nairn on the 15th. At most other stations the highest readings varied from 50° to 56°. Temperature fell to a little below freezing point in "England, S.W." and "Scotland, E."

Rainfall has been very slight everywhere, and in the "Wheat-producing Districts" was scarcely appreciable.

Bright sunshine shows a great decrease in all places and was very deficient, the percentages ranging from 14 in "Scotland, E." to 1 in "Scotland, W."

Depressions observed.—At the commencement of the period a depression of considerable depth and magnitude was travelling in an east-north-easterly direction off the N. coast of Scotland, while the barometer was highest over France. The wind consequently varied from a strong westerly or west-south-westerly gale at our northern stations to a moderate or fresh west south-westerly breeze in the S. As this disturbance passed away pressure, with very slight interruptions, continued to increase steadily with moderate or light south-westerly breezes, and on the 16th the mercury had reached the exceptional height of 30·9 ins. on our S.E. coast and 30·5 ins. to the northward of Scotland.

R 287. 460.—1/82. Wt. 14790. E. & S.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	49	29	43·4	32·7	38·1	− 0·2	6	1·06	+0·56	*	*
	Aberdeen	52	29	43·9	32·4	38·2	+ 1·1	3	0·38	−0·27	23	49
	Leith	53	31	46·6	35·0	40·8	+ 2·9	6	0·80	+0·39	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	33	45·0	35·7	40·4	+ 3·1	4	0·26	?	*	*
	Shields	52	33	47·0	37·0	42·0	+ 3·9	5	0·19	−0·32	*	*
	Durham	53	32	46·1	34·7	40·4	+ 3·3	4	0·21	−0·35	18	36
	York	53	34	48·1	37·1	42·6	+ 4·3	5	0·44	−0·06	?	?
	Spurn Head	52	35	46·4	37·9	42·2	+ 4·7	4	0·17	?	*	*
	Brigg‡ ℔										10	19
3. ENGLAND, E.	Hillington ℔	52	33	47·7	37·5	42·6	+ 4·9	4	0·76	+0·26	12	23
	Yarmouth	52	31	46·4	36·6	41·5	+ 3·4	3	0·88	+0·23	*	*
	Geldeston	52	32	48·5	36·9	42·7	+ 4·5	4	0·89	+0·44	18	33
	Cambridge	54	32	49·6	36·0	42·8	+ 4·2	4	0·85	+0·45	?	?
	Rothamsted	51	33	48·4	36·1	42·3	+ 4·5	6	0·78	+0·10	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)										*	*
	Nottingham	60	32	50·1	36·6	43·4	+ 5·3	4	0·33	−0·27	*	*
	Loughborough	53	35	48·4	38·8	43·6	+ 5·4	3	0·74	+0·19	*	*
	Leicester	52	30	47·8	36·0	41·9	+ 3·8	4	0·81	+0·37	15	28
	Birmingham (Oscott)	53	32	48·1	35·6	41·9	+ 5·0	4	0·92	+0·22	*	*
	Cheadle ℔	51	33	46·8	35·2	41·0	+ 3·8	4	0·70	?	*	*
	Churchstoke ℔	52	32	48·0	36·1	42·1	+ 3·8	6	1·01	?	17	32
	Hereford ℔	55	34	49·5	37·4	43·5	+ 4·7	4	0·64	−0·16	*	*
	Cirencester	52	31	48·3	35·5	41·9	+ 3·6	5	1·18	+0·30	21	39
	Oxford	53	34	49·1	38·6	43·9	+ 5·1	3	0·74	+0·16	21	39
5. ENGLAND, S.	London†	53	33	49·4	38·1	43·8	+ 4·7	3	0·66	+0·03	13	23
	Marlborough ℔	51	30	48·0	35·6	41·8	+ 3·4	5	0·89	+0·08	19	34
	Strathfield Turgiss ℔	53	32	49·6	35·9	42·8	+ 3·7	4	0·60	−0·08	*	*
	Dover	50	36	47·3	40·4	43·9	+ 4·4	4	0·38	−0·42	*	*
	Hastings (St. Leonard's)	51	32	48·3	38·6	43·5	+ 4·2	4	0·43	−0·30	*	*
	Southampton	53	34	49·7	38·7	44·2	+ 4·2	5	0·65	?	19	34
	Hurst Castle	51	35	49·3	40·9	45·1	+ 4·6	6	0·63	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	53	34	47·1	36·6	41·9	+ 2·8	7	4·15	?	*	*
	Glasgow	50	33	45·1	35·2	40·2	+ 2·2	7	1·40	+0·19	2	4
	Ardrossan	50	34	46·0	37·4	41·7	+ 2·6	6	1·46	+0·35	*	*
	Silloth (Cumberland)	50	33	44·8	38·8	41·8	+ 3·0	5	1·02	+0·14	6	12
	Douglas (Isle of Man)	53	36	47·2	38·9	43·1	+ 3·2	5	1·59	+0·34	15	29
7. ENGLAND, N.W.	Barrow-in-Furness	49	39	46·0	40·0	43·0	+ 3·0	5	1·62	?	*	*
	Stonyhurst	50	35	46·3	37·2	41·8	+ 3·3	6	1·87	+0·81	11	21
	Blackpool ℔	50	38	46·8	40·4	43·6	+ 3·4	7	1·05	+0·30	*	*
	Manchester	52	34	47·2	36·4	41·8	+ 3·1	6	1·44	+0·69	*	*
	Liverpool Obsy (Bidston)	54	38	49·1	40·1	44·6	+ 4·9	5	0·46	−0·08	*	*
	Llandudno ℔	55	39	50·1	40·4	45·3	+ 4·2	6	0·55	−0·34	7	13
	Holyhead	51	40	48·6	41·6	45·1	+ 3·4	4	0·78	−0·18	*	*
8. ENGLAND, S.W.	Pembroke	51	41	49·1	43·9	46·5	+ 5·0	6	1·69	+0·59	19	35
	Arlington (N. Devon)	50	34	47·4	38·3	42·9	+ 3·2	7	2·15	?	*	*
	Cullompton	54	32	49·8	38·1	44·0	+ 3·6	7	0·94	?	14	24
	Falmouth	52	40	50·2	42·8	46·5	+ 3·0	7	1·12	+0·12	16	28
	Plymouth	53	37	50·7	41·5	46·1	+ 3·8	6	0·63	−0·48	14	24
	Prawle Point	53	35	49·6	40·1	44·9	+ 3·8	6	0·61	?	*	*
9. IRELAND, N.	Londonderry										*	*
	Mullaghmore	53	38	47·1	40·1	43·6	+ 3·3	7	1·60	?	*	*
	Markree Castle	52	33	47·9	36·1	42·0	+ 1·8	6	0·75	+0·02	11	21
	Brookeborough	54	33	45·5	35·6	40·6	+ 1·5	7	1·52	?	*	*
	Armagh	50	33	45·2	35·7	40·5	+ 0·9	7	0·87	+0·17	11	21
	Donaghadee	52	33	45·7	35·4	40·6	− 0·1	6	0·66	?	*	*
10. IRELAND, S.	Dublin	54	35	49·4	38·1	43·8	+ 3·3	5	0·27	−0·34	22	42
	Parsonstown	53	33	47·0	36·0	41·5	+ 2·0	6	1·03	+0·23	17	32
	Waterford										*	*
	Roche's Point	51	36	49·6	38·9	44·3	+ 2·2	6	2·25	+0·80	*	*
	Valencia	55	38	51·1	40·6	45·9	+ 0·9	6	1·92	+0·32	12	22
	Foynes	54	36	49·3	39·1	44·2	+ 3·3	7	1·14	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

Note.—Cullompton has now been added to the list of stations in "England, S.W."

Erratum.—On page 1 in Report for week ending December 26th, 1881 the "Mean for each Day" in "England, S.W." should read "42."

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 16, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866–75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	57	29	49	40	44	7 above.	1	1	5 less.	7	14
	2. ENGLAND, N.E.	50	35	45	39	42	5 above.	1	less than ½	4 less.	4	8
	3. ENGLAND, E.	52	32	45	38	41	4 above.	2	less than ½	5 less.	4	7
	4. MID. COUNTIES	56	32	46	38	42	4 above.	2	1	5 less.	3	5
	5. ENGLAND, S.	54	32	47	40	43	4 above.	3	1	7 less.	2	3
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	53	33	49	44	46	8 above.	4	5	9 less.	1	1
	7. ENGLAND, N.W.	50	35	46	41	43	4 above.	4	2	6 less.	2	4
	8. ENGLAND, S.W.	54	31	49	43	46	5 above.	3	2	9 less.	3	5
	9. IRELAND, N.	56	37	51	45	48	8 above.	3	2	5 less.	3	6
	10. IRELAND, S.	57	36	53	45	49	7 above.	4	5	7 less.	4	7

General Remarks.

Weather, though very free from rain, has been exceedingly gloomy with much mist or fog.

Temperature has continued above the mean, the excess varying from 4° over the greater part of England to 7° or 8° in Ireland and Scotland. The maxima were very high for the season, the thermometer rising to 57° at Dublin on the 14th, and to the same height at Nairn on the 15th. At most other stations the highest readings varied from 50° to 56°. Temperature fell to a little below freezing point in "England, S.W." and "Scotland, E."

Rainfall has been very slight everywhere, and in the "Wheat-producing Districts" was scarcely appreciable.

Bright sunshine shows a great decrease in all places and was very deficient, the percentages ranging from 14 in "Scotland, E." to 1 in "Scotland, W."

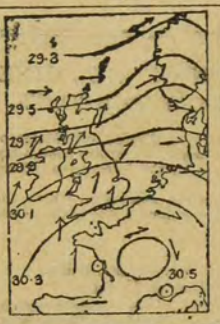
Depressions observed.—At the commencement of the period a depression of considerable depth and magnitude was travelling in an east-north-easterly direction off the N. coast of Scotland, while the barometer was highest over France. The wind consequently varied from a strong westerly or west-south-westerly gale at our northern stations to a moderate or fresh west south-westerly breeze in the S. As this disturbance passed away pressure, with very slight interruptions, continued to increase steadily with moderate or light south-westerly breezes, and on the 16th the mercury had reached the exceptional height of 30·9 ins. on our S.E. coast and 30·5 ins. to the northward of Scotland.

R 287. 460.—1/82. Wt. 14790. E. & S.

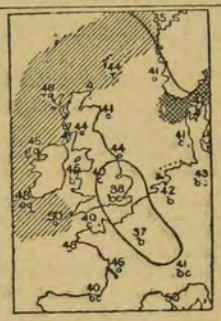
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 16, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.



CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, January 10.

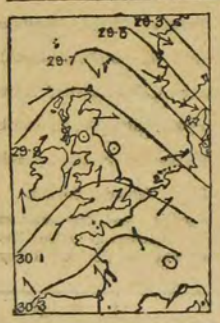
Weather fine in the S.E. of England, the N.E. of France, N. Germany, and S. Scandinavia; dull elsewhere, with rain and sleet in N. Scotland. Fine on the whole in the E. and S.E. during day.

Temperature risen except in the S.E. and over the N.E. of France; readings ranging from 48° at Valencia, to 35° at Cambridge. Rising briskly in the S.E. later, and maxima varying between 44° and 53°.

Wind southerly over France, England, and Ireland, westerly in Denmark and Scandinavia, blowing strongly W. and N., and rising to a very severe gale in the E. of Scotland and W. of Norway later.

Sea rough all round our S.W., W., and N. coasts.

Barometer falling in N. and W., rising over France and our eastern districts. Pressure highest over France, and lowest off W. of Norway. Deep depression passing to the northward of Scotland during day.



Wednesday, January 11.

Weather fine on our N. and N.E. coast, as well as in parts of France and Denmark, dull elsewhere, with rain in the W. Dull and rainy all day in W.; very fine in E.

Temperature fallen in Scotland and over central France, risen elsewhere; ranging from 51° in the S.W., to 36° at Wick. Maxima between 39° and 55°, but night cold in the N. and E.

Wind southerly on our extreme W. coasts, south-westerly and westerly in our other districts, and generally moderate or light elsewhere, but west-north-westerly gales blowing on the eastern shores of the North Sea. Southerly wind in the W. spreading over us.

Sea rough at Valencia and off Norway.

Barometer falling over France and our southern districts, rising elsewhere. Pressure still highest over France, but now lowest over Gulf of Bothnia. Rising all day,—quickly in Scandinavia.

Thursday, January 12.

Weather fine in parts of Scotland, cloudy and dull elsewhere with much mist and fog. Dull in most place all day, but rain falling in W.

Temperature fallen except Scotland, ranging from 51° at Valentia to 37° at Nairn. Little change during day, and maxima ranging between 45° and 53°.

Wind south-easterly in the S.W. of France and at Valencia, but southerly to south-westerly elsewhere; blowing freshly on our western coasts, but lightly or moderately in the E. Strong southerly winds in the W. and N. all day.

Sea rough at Valencia, Stornoway, and Christiansund.

Barometer rising everywhere,—rapidly over the countries to the eastward of the North Sea. Pressure highest over France, lowest off the N.W. coast of Scotland. Falling in the extreme W. all day.

Friday, January 13.

Weather fine at some eastern and north-eastern stations, cloudy or dull generally with rain at Roche's Point. Dull generally during day, with rain in the W.

Temperature risen in the N.E. and E., fallen in most other places—quickly over France, and readings ranging from 52° at Valencia to 42° at Yarmouth. Little change later, maxima varying between 44° and 53°.

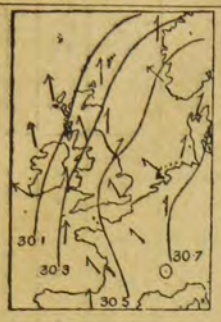
Wind south-easterly in the S.W. of France and at Valencia, but southerly elsewhere; blowing strongly on our own and the French western coasts, but lightly or moderately in the E. Strong southerly winds in the W. and N. all day.

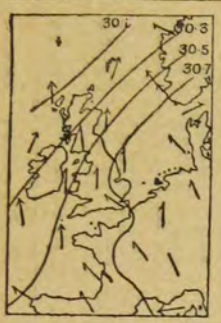
Sea rough in the S.W., W., and at Skudesnaes.

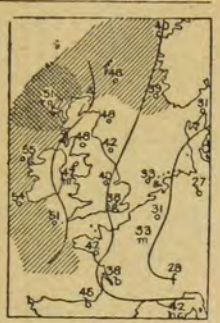
Barometer rising over the countries to the eastward of the North Sea, falling over these Islands. Pressure highest over the Baltic, lowest off the Irish coast. Decreasing all day.

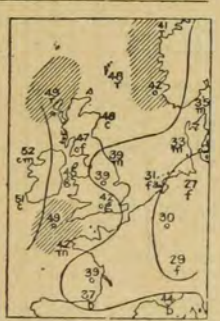
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Saturday, January 14.

Weather fine at some north eastern stations, cloudy, dull, and misty elsewhere, with rain in S. Ireland. Dull and gloomy all day with slight rain in the N.W., N.E., and W.

Temperature fallen in the eastern half of our area, risen in the western, and readings ranging from 53° in Ireland to 39° at Yarmouth. Maxima low in the S.E., but high in the W., varying between 41° and 56°.

Wind south-easterly at Valencia and over the Bay of Biscay, but southerly elsewhere; blowing strongly in the S.W. and W., but lightly or moderately generally. Southerly winds holding all day, blowing a gale in W.

Sea rough in the S.W., W., and N.

Barometer rising generally and ranging from 30·69 ins. over the Skager Rock to 30·05 ins. in N. Ireland. Falling somewhat in the N.W. later, and depression passing along that coast.

Sunday, January 15.

Weather dull and gloomy generally with some fog or mist, but hardly any rain. Dull and foggy all day with some rain in the Shetlands and Hebrides.

Temperature fallen over England, risen in most other places; ranging from 55° at Mullaghmore to 38° at Yarmouth. Maxima high in N., thermometer reaching 57° at Nairn and 54° at Leith and Wick.

Wind south easterly at most of the Continental stations, but southerly on most of our coasts, strong in the W. and N. Little change during day.

Sea rough in the S.W., N., and W.

Barometer rising everywhere, but distribution unaltered; readings ranging from 30·89 ins. over the Baltic to 30·13 ins. in the Hebrides. Rising during day.

Monday, January 16.

Weather dull and gloomy in nearly all places, with much fog and mist and rain at Sumburgh Head and Stornoway. Cloudy, gloomy, and foggy generally during day with rain in N.

Temperature fallen except in some parts of the S. of England; readings ranging from 52° in N. Ireland to 37° at York and 29° at Lyons. Maxima varying from 55° in the W. to 40° in the E. and following night cold.

Wind south-easterly over France, the Channel, and our S.W. coasts, southerly to south-westerly elsewhere. Blowing freshly in the W. South-easterly to southerly all day and strong to a gale in the Hebrides.

Sea rough at the entrance to the Channel, round the Hebrides, and off the W. of Norway.

Barometer rising everywhere and pressure becoming very high generally, readings ranging from 30·9 ins. at Cuxhaven and 30·92 ins. at Lyons to 30·2 in Lapland. Rising all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	50	33	47·4	40·1	43·8	+4·0	5	0·60	−0·10	*	*
	Stornoway	52	33	49·9	41·1	45·5	+6·7	5	0·91	−0·38	5	10
	Wick	54	33	48·3	39·3	43·8	+5·6	2	0·18	−0·31	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	44	52·9	48·1	50·5	+5·6	4	0·30	−0·88	*	*
	Jersey (Noirmont)	51	38	45·6	41·3	43·5	+3·5	0	—	−0·77	6	10

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	57	30	49·7	39·6	44·7	+ 7·1	2	0·25	−0·30	*	*
	Aberdeen	50	29	48·0	39·0	43·5	+ 6·8	0	—	−0·65	7	14
	Leith	54	33	50·3	39·9	45·1	+ 7·6	0	—	−0·43	*	*
2. ENGLAND, N.E.	Alnwick Castle	49	37	46·4	39·1	42·8	+ 5·9	1	0·03	?	*	*
	Shields	50	37	46·3	39·6	43·0	+ 5·8	2	0·07	−0·42	*	*
	Durham	48	35	44·7	38·3	41·5	+ 4·9	1	0·01	−0·49	3	6
	York	47	35	44·7	37·3	41·0	+ 3·0	2	0·08	−0·38	2	4
	Spurn Head	47	38	44·0	38·6	41·3	+ 3·8	1	0·01	?	*	*
	Brigg‡ ℞										7	13
3. ENGLAND, E.	Hillington ℞	49	36	44·6	38·5	41·6	+ 4·2	3	0·05	−0·42	4	7
	Yarmouth	49	33	43·6	36·6	40·1	+ 2·4	1	0·02	−0·58	*	*
	Geldeston	52	36	44·7	38·6	41·7	+ 4·1	1	0·02	−0·39	4	7
	Cambridge	52	34	46·3	37·6	42·0	+ 3·9	1	0·01	−0·39	6	11
	Rothamsted	52	32	44·9	37·2	41·1	+ 3·6	2	0·06	−0·64	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	35	47·7	37·4	42·6	+ 4·4	2	0·09	−0·34	*	*
	Nottingham	53	35	46·3	38·0	42·2	+ 4·4	3	0·08	−0·43	*	*
	Loughborough	51	37	46·0	38·9	42·5	+ 4·6	1	0·01	−0·53	*	*
	Leicester	50	37	45·7	38·8	42·3	+ 4·5	1	0·03	−0·48	4	7
	Birmingham (Oscott)	47	35	44·3	37·5	40·9	+ 3·2	1	0·03	−0·67	*	*
	Cheadle ℞	49	34	44·1	36·9	40·5	+ 3·8	3	0·12	?	*	*
	Churchstoke ℞	49	32	46·4	37·2	41·8	+ 3·8	0	—	?	9	16
	Hereford ℞	56	35	47·5	39·3	43·4	+ 4·7	2	0·01	−0·77	*	*
	Cirencester	50	32	46·4	37·6	42·0	+ 3·9	2	0·15	−0·78	1	2
	Oxford	55	35	47·7	39·4	43·6	+ 5·0	3	0·03	−0·57	3	5
5. ENGLAND, S.	London†	54	35	47·7	38·4	43·1	+ 4·3	2	0·02	−0·58	1	2
	Marlborough ℞	51	36	46·1	40·1	43·1	+ 5·0	1	0·01	−0·84	3	5
	Strathfield Turgiss ℞	53	32	47·3	38·0	42·7	+ 3·9	1	0·03	−0·69	*	*
	Dover	49	37	45·1	40·1	42·6	+ 3·5	2	0·16	−0·64	*	*
	Hastings (St. Leonard's)	48	37	45·8	40·4	43·1	+ 4·1	3	0·06	−0·68	*	*
	Southampton	53	33	47·7	41·1	44·4	+ 4·8	3	0·16	?	1	2
	Hurst Castle	50	37	47·7	41·6	44·7	+ 4·6	3	0·17	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	53	33	50·5	43·9	47·2	+ 8·3	6	1·56	?	*	*
	Glasgow	51	38	48·1	42·9	45·5	+ 7·9	3	0·15	−1·07	0	0
	Ardrossan	49	39	47·3	43·4	45·4	+ 6·7	5	0·26	−0·93	*	*
	Silloth (Cumberland)	53	42	48·4	44·2	46·3	+ 7·9	3	0·09	−0·83	1	2
	Douglas (Isle of Man)	50	42	48·1	44·6	46·4	+ 6·9	4	0·54	−0·76	1	2
7. ENGLAND, N.W.	Barrow-in-Furness	46	39	44·3	41·4	42·9	+ 3·4	4	0·38	?	*	*
	Stonyhurst	48	38	45·8	39·2	42·5	+ 4·4	2	0·09	−0·95	2	4
	Blackpool ℞	48	35	45·3	39·4	42·4	+ 2·7	5	0·41	−0·35	*	*
	Manchester	49	36	45·8	38·8	42·3	+ 4·1	4	0·20	−0·54	*	*
	Liverpool Obs? (Bidston)	50	37	46·4	40·6	43·5	+ 4·2	2	0·20	−0·36	*	*
	Llandudno ℞											
	Holyhead	50	43	49·0	44·9	47·0	+ 5·7	5	0·17	−0·79	*	*
8. ENGLAND, S.W.	Pembroke	50	43	48·7	45·1	47·9	+ 6·7	4	0·36	−0·79	2	4
	Arlington (N. Devon)	50	36	47·6	40·6	44·1	+ 4·7	4	0·23	−0·87	*	*
	Cullompton ℞	54	31	49·1	40·6	44·9	+ 5·0	2	0·02	?	2	4
	Falmouth	53	42	51·0	45·8	48·4	+ 5·2	4	0·27	−0·73	2	3
	Plymouth	54	35	51·1	43·6	47·4	+ 5·4	4	0·19	−1·00	4	7
	Prawle Point	51	40	48·4	42·7	45·6	+ 4·9	2	0·03	?	*	*
9. IRELAND, N.	Londonderry										*	*
	Mullaghmore	56	42	53·3	47·3	50·3	+10·2	3	0·12	?	*	*
	Markree Castle	55	39	51·9	44·7	48·3	+ 8·3	2	0·18	−0·57	2	4
	Brookeborough	54	39	50·6	44·4	47·5	+ 8·6	3	0·23	?	*	*
	Armagh	54	39	50·5	44·6	47·6	+ 8·5	4	0·13	−0·57	4	7
	Donaghadee	51	37	48·6	43·6	46·1	+ 5·7	4	0·32	?	*	*
10. IRELAND, S.	Dublin	57	41	51·5	44·6	48·1	+ 7·9	3	0·10	−0·50	6	11
	Parsonstown	54	36	51·7	43·7	47·7	+ 8·3	3	0·25	−0·57	1	2
	Waterford										*	*
	Roche's Point	54	40	52·4	46·4	49·4	+ 7·3	5	1·21	−0·29	*	*
	Valencia	55	42	54·3	48·1	51·2	+ 6·3	5	0·52	−1·19	3	5
	Foynes	55	40	52·6	43·9	48·3	+ 7·4	4	0·34	?	*	*

Stations marked ℞ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

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PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 23, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	55	32	49	40	44	7 above.	2	1	4 less.	14	27
	2. ENGLAND, N.E.	51	30	45	36	41	3 above.	0	—	4 less.	14	26
	3. ENGLAND, E.	44	28	40	32	36	2 below.	0	less than ⅓	5 less.	3	4
	4. MID. COUNTIES	48	26	42	32	37	1 below.	1	less than ⅓	6 less.	8	13
	5. ENGLAND, S.	48	27	40	32	36	4 below.	0	less than ⅓	7 less.	4	7
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	52	31	47	41	44	5 above.	3	3	11 less.	5	8
	7. ENGLAND, N.W.	50	29	44	38	41	2 above.	2	1	7 less.	6	10
	8. ENGLAND, S.W.	48	25	43	36	40	2 below.	0	—	11 less.	6	10
	9. IRELAND, N.	53	30	48	38	43	3 above.	1	less than ½	7 less.	14	25
	10. IRELAND, S.	54	30	49	40	44	3 above.	1	less than ½	11 less.	13	23

General Remarks.

Weather has been very gloomy with a great deal of mist and fog.

Temperature has been below the mean over the greater part of England, but continued above it in Scotland and Ireland; in "Scotland, E." the excess was 7°, while in "England, S." the deficit was 4°. The highest temperature during the period (55°) was registered at Aberdeen on the 18th, while the lowest (25°) occurred at Cullompton, Devon, on the 22nd.

Rainfall has been much less than the mean everywhere, and in the S.W. and N.E. of England the weather was quite dry.

Bright sunshine was very little prevalent, the percentages varying from 4 in "England, E." and 7 in "England, S.", to 26 in "England, N.E." and 27 in "Scotland, E."

Depressions observed.—During this period an extensive area of exceptionally high pressure has existed over England and France, while a few depressions have passed in an easterly or south-easterly direction over Scandinavia. The winds, which were light in force, blew chiefly from E. in the S., from S. in the W., and from the westward in all the more northern parts of the Kingdom.

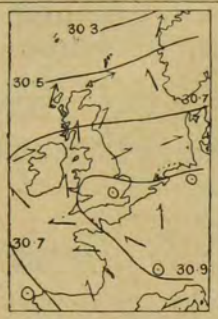
R 394. 460.—1/82. Wt. . E. & S.

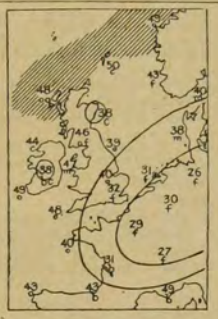
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 23, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, January 17.

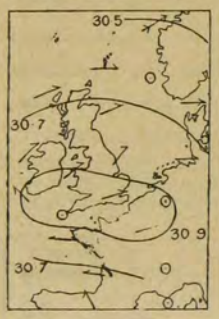
Weather cloudy or dull in nearly all places except the S. of France, with a good deal of fog and mist. Fine in Ireland and the W. of France during day, dull elsewhere with rain in N.

Temperature fallen generally,—quickly in some places; readings ranging from 49° at Valencia and 50° in the Shetlands, to 32° in London. Maxima below 40° in S., above 50° in N. Cold night over England.

Wind easterly over France and Channel, south-westerly in all the more northern parts of the Kingdom and over Scandinavia. Blowing strongly in N. Scotland and W. Norway. Little change later, but falling lighter in Scotland.

Sea rough in N.

Barometer rising except in Scandinavia, and pressure ranging from 30·9 ins. over France and the S.E. of England, to 29·9 ins. at Bodö. Hardly any change later.



Wednesday, January 18.

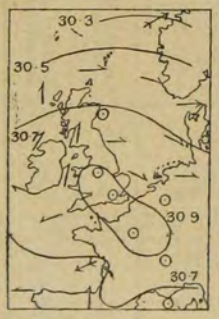
Weather fine in W. France as well as at some of our north-western and north-eastern stations, still cloudy or dull elsewhere, with much fog in the S.E. Fine in the N.W., N., and N.E. later. No rain.

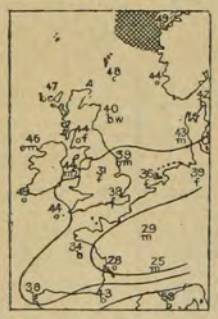
Temperature risen somewhat in Scotland and N. Ireland, fallen elsewhere; readings ranging from 51° at Nairn to 29° at Hurst Castle. Maximum 55° at Aberdeen, and only 35° in London.

Wind unaltered; westerly all over the more northern parts of our area, and easterly over the southern; still blowing a gale in Norway, but light or moderate on our coasts.

Sea rough at Brest and Christiansund.

Barometer falling in W. France and in Sweden, riding elsewhere and anticyclone spreading westward. Pressure ranging from 30·97 ins. at Oxford, to 29·56 ins. at Haparanda. Falling in S. later.





Thursday, January 19.

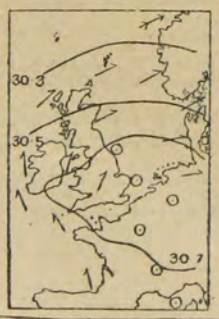
Weather fine in Scotland, dull generally, still with a good deal of fog and mist. Fine in N.E. during day, dull and foggy elsewhere, but weather dry.

Temperature fallen again in most places, and ranging from 47° at Stornoway to 31° at Nottingham. Maxima varying between 50° at Wick and Leith and 38° at Oxford.

Wind easterly over France and the S. of England, south-westerly to westerly on our other coasts and over Norway and Sweden. Moderate generally, but blowing a gale at Rochefort and Christiansund. No change later.

Sea rough on W. coast of Norway.

Barometer falling somewhat in nearly all places; ranging from 30·93 ins. at Oxford to 30·61 ins. at Coruña and 29·67 ins. at Bodö. Falling slowly all day.



Friday, January 20.

Weather cloudy or dull in nearly all places with rain in the W. of Norway and fog or mist over England and France. Fine in Scotland in evening, but slight rain in N. Ireland and N. Scotland during day.

Temperature risen in S. England, fallen or changed irregularly elsewhere; readings ranging from 48° at Valencia to 35° at Nottingham, and maxima varying between 50° in S. Ireland and 35° over central England.

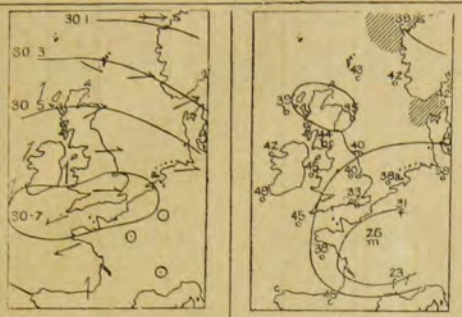
Wind easterly over France and the Channel, southerly on most of our other coasts and south-westerly in Scandinavia. Blowing hard in W. Norway, light or moderate over these Islands. South-westerly gale springing up for an hour at Stornoway in the afternoon.

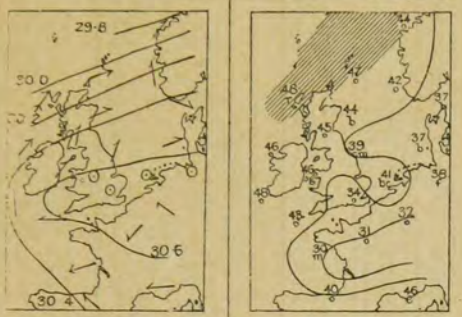
Sea rough on the W. coast of Norway and at Skagen.

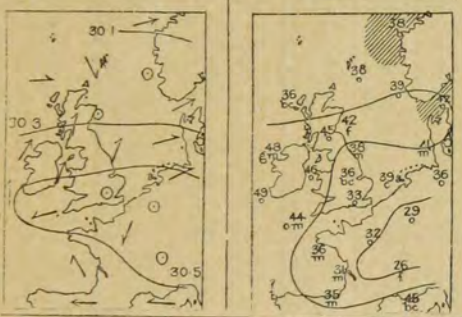
Barometer falling everywhere—quickly at Christiansund, very slightly at our south-eastern stations. Anticyclone still over us and pressure ranging from 30·79 ins. at Nottingham to 29·4 ins. in Lapland. Falling all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, January 21.

Weather fine in the N. and E., cloudy or dull elsewhere, with much fog and mist. Fine most of the day in the N. and E., but slight rain falling in W. and N.W.

Temperature fallen except in the N.W., and ranging from 49° at Valencia to 30° at Nottingham. Cold all day in South-eastern and Central England.

Wind still easterly in S. and the Channel, westerly in the N. and over Scandinavia; moderate in force except in Norway. Wind south-westerly and inclined to increase in the W. and N. later.

Sea rough in the Skager Rack and off the W. of Norway.

Barometer falling briskly in Scandinavia and large depression appearing in N., rising a little at most of our stations, and still as high as 30·7 ins. over southern England. Falling again over these Islands later.

Sunday, January 22.

Weather fine at Dover and Aberdeen and in parts of Denmark and Sweden; dull generally with fog in the S.E. and rain at Stornoway. Dense fog in London during day; fair generally in evening.

Temperature risen except in S.W.; ranging from 48° at Stornoway and Valencia to 34° in London. Maxima varying between 40° and 50°. Night cold in the eastern and central districts.

Wind little changed, still easterly in the S., south-westerly in the W. and N.; strong in Scotland and blowing a gale at Stornoway. Gale subsiding later but direction unchanged.

Sea rough round the Hebrides and Shetlands.

Barometer rising in Sweden and Denmark, falling elsewhere; ranging from 30·65 ins. at Oxford to 29·74 ins. at Haparanda. Falling except at Stornoway during day.

Monday, January 23.

Weather fine in the N.E. and N.; still dull generally. Dull and misty except in the E. all day.

Temperature fallen over Great Britain, risen or changed irregularly elsewhere; ranging from 49° at Valencia to 36° at Wick and 33° in London. Rising briskly during day, but low again at night.

Wind still easterly in S., westerly and south-westerly in N.; moderate in force on most coasts, but blowing hard in Norway. South-westerly gale at Stornoway later; little other change.

Sea rough in Skager Rack and at Christiansund.

Barometer falling over these Islands, rising at most of the Continental stations; anticyclone still holding, and pressure ranging from 30·59 ins. at Cape Gris Nez to 29·46 in. at Bodo. Hardly any change during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	51	35	48·3	41·1	44·7	+5·3	6	0·31	−0·34	*	*
	Stornoway	51	34	49·1	41·4	45·3	+6·5	6	0·58	−0·67	3	6
	Wick	51	34	47·9	39·3	43·6	+5·4	5	0·27	−0·14	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	40	46·4	43·3	44·9	−0·2	0	—	−1·14	*	*
	Jersey (Noirmont)	40	30	37·9	32·7	35·3	−6·7	0	—	−0 75	2	3

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	52	36	48·9	42·3	45·6	+ 7·9	3	0·25	−0·26	*	*
	Aberdeen	55	32	47·7	35·9	41·8	+ 4·8	1	0·01	−0·61	14	27
	Leith	51	38	48·9	40·7	44·8	+ 7·0	1	0·01	−0·46	*	*
2. ENGLAND, N.E.	Alnwick Castle	50	36	45·9	39·6	42·8	+ 5·6	0	—	?	*	*
	Shields	50	34	46·7	37·7	42·2	+ 4·5	0	—	−0·41	*	*
	Durham	51	31	46·4	34·4	40·4	+ 3·5	0	—	−0·42	19	35
	York	47	30	44·1	33·1	38·6	+ 0·3	0	—	−0·41	9	16
	Spurn Head	44	33	42·1	35·7	38·9	+ 1·1	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	44	28	39·9	32·3	36·1	− 1·6	0	§0·01	−0·42	4	7
	Yarmouth	42	30	39·6	32·3	36·0	− 2·0	1	0·01	−0·59	*	*
	Geldeston	43	30	40·6	33·7	37·2	− 0·8	0	—	−0·40	2	3
	Cambridge	44	29	40·7	31·9	36·3	− 2·2	0	—	−0·35	2	3
	Rothamsted	43	29	39·7	31·0	35·4	− 3·4	0	§0·03	−0·69	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	47	28	42·6	30·9	36·8	− 1·7	0	—	−0·40	*	*
	Nottingham	46	28	41·6	32·3	37·0	− 1·2	2	0·05	−0·35	*	*
	Loughborough	48	28	41·9	31·9	36·9	− 1·3	1	0·02	−0·52	*	*
	Leicester	45	30	42·0	33·7	37·9	− 0·3	1	0·02	−0·48	4	7
	Birmingham (Oscott)	44	30	41·1	33·7	37·4	− 0·7	0	—	−0·70	*	*
	Cheadle ℳ	46	28	41·8	32·2	37·0	+ 0·1	0	—	?	*	*
	Churchstoke ℳ	47	27	43·7	30·1	36·9	− 1·4	0	—	?	12	21
	Hereford ℳ	47	29	41·2	32·7	37·0	− 2·1	1	0·01	−0·74	*	*
	Cirencester	47	26	40·3	31·1	35·7	− 2·8	3	0·03	−0·87	9	16
	Oxford	44	31	39·6	32·9	36·3	− 2·7	0	—	−0·60	5	9
5. ENGLAND, S.	London†	44	27	39·9	30·3	35·1	− 4·0	0	—	−0·57	3	5
	Marlborough ℳ	46	27	39·6	30·1	34·9	− 3·5	0	§0·02	−0·80	7	12
	Strathfield Turgiss ℳ	44	29	38·9	31·6	35·3	− 3·8	1	0·02	−0·72	*	*
	Dover	48	30	41·3	33·7	37·5	− 1·9	0	—	−0·74	*	*
	Hastings (St. Leonard's)	43	29	39·5	33·0	36·3	− 3·0	0	§0·01	−0·72	*	*
	Southampton	43	28	39·4	30·6	35·0	− 4·7	0	—	?	2	3
	Hurst Castle	44	28	41·9	31·3	36·6	− 3·8	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	51	38	49·4	43·1	46·3	+ 7·2	5	1·20	?	*	*
	Glasgow	49	37	46·6	41·1	43·9	+ 6·1	3	0·07	−1·09	5	9
	Ardrossan	47	40	46·3	42·6	44·5	+ 5·7	2	0·02	−1·15	*	*
	Silloth (Cumberland)	47	36	45·2	39·2	42·2	+ 3·5	3	0·06	−0·85	2	4
	Douglas (Isle of Man)	52	31	47·0	38·8	42·9	+ 3·3	2	0·03	−1·25	7	12
7. ENGLAND, N.W.	Barrow-in-Furness	46	? 36	44·6	38·9	41·8	+ 2·1	2	0·07	?	*	*
	Stonyhurst	45	35	42·9	37·4	40·2	+ 1·9	3	0·18	−0·83	0	0
	Blackpool ℳ	47	29	44·8	35·7	40·3	+ 0·4	1	0·01	−0·69	*	*
	Manchester	44	32	41·5	34·6	38·1	− 0·3	1	0·04	−0·66	*	*
	Liverpool Obsy (Bidston)	47	35	44·9	37·4	41·2	+ 1·7	0	—	−0·58	*	*
	Llandudno ℳ										11	19
	Holyhead	50	39	47·0	42·0	44·5	+ 3·1	2	0·02	−0·98	*	*
8. ENGLAND, S.W.	Pembroke	48	36	44·7	39·1	41·9	+ 0·6	0	—	−1·13	4	7
	Arlington (N. Devon)	45	29	40·7	31·7	36·2	− 3·5	0	—	?	*	*
	Cullompton ℳ	45	25	41·2	32·7	37·0	− 3·2	0	—	?	4	7
	Falmouth	48	36	44·4	40·1	42·3	− 1·0	0	—	−0·98	1	2
	Plymouth	48	32	44·4	36·6	40·5	− 1·5	0	—	−1·14	13	22
	Prawle Point	46	34	43·3	36·6	40·0	− 0·9	0	—	?	*	*
9. IRELAND, N.	Londonderry										*	*
	Mullaghmore	52	39	49·4	42·0	45·7	+ 5·4	2	0·07	?	*	*
	Markree Castle	53	31	48·7	36·5	42·6	+ 2·4	2	0·02	−0·73	16	29
	Brookeborough	50	30	46·5	36·0	41·3	+ 2·2	0	—	?	*	*
	Armagh	49	34	46·3	38·7	42·5	+ 3·2	1	0·01	−0·69	12	21
	Donaghadee	50	35	46·7	37·6	42·2	+ 1·7	0	—	?	*	*
10. IRELAND, S.	Dublin	49	35	47·0	39·1	43·1	+ 2·6	1	0·02	−0·58	12	21
	Parsonstown	49	30	46·7	35·1	40·9	+ 1·1	2	0·09	−0·71	15	26
	Waterford	50	33	47·9	40·6	44·3	+ 3·3	0	§0·01	−1·24	*	*
	Roche's Point	53	40	49·6	42·7	46·2	+ 3·8	0	—	−1·46	*	*
	Valencia	53	41	51·1	44·9	48·0	+ 3·0	0	—	−1·67	12	21
	Foynes	54	34	50·1	37·5	43·8	+ 2·7	0	—	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Dew.

Note.—The observations from Brigg have now ceased.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 30, 1882.

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Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	29	45	36	41	3 above.	3	2	2 less.	16	29
	2. ENGLAND, N.E.	52	28	43	35	39	1 above.	3	4	0 (average).	8	13
	3. ENGLAND, E.	51	24	44	34	39	1 above.	3	3	2 less.	9	15
	4. MID. COUNTIES	52	24	45	34	39	0 (average).	3	10	5 more.	3	6
	5. ENGLAND, S.	52	24	45	36	40	0 (average).	1	1	5 less.	1	2
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	52	28	45	38	42	3 above.	3	5	8 less.	7	11
	7. ENGLAND, N.W.	52	31	43	36	40	0 (average).	3	10	4 more.	10	16
	8. ENGLAND, S.W.	54	24	48	39	43	2 above.	4	7	3 less.	8	13
	9. IRELAND, N.	51	28	48	37	42	1 above.	4	6	2 less.	13	21
	10. IRELAND, S.	54	31	48	39	43	1 above.	4	9	2 less.	12	20

General Remarks.

Weather during the first few days of this period continued very dull, with a great deal of mist or fog, but no rain. By the 27th, however, it had become less settled, rain falling in the southern and south-western districts, while some heavy snowstorms were experienced in the N. of England.

Temperature has been a little above the mean except in the north-western, central, and southern parts of England, where it was about equal to the mean value. The maxima varied from 54° in "Scotland, E.", "England, S.W", and "Ireland, S.", to 51° in the E. of England and N. of Ireland. The minima, which were registered during the earlier part of the period, ranged from 24° over the greater part of England to 29° in "Scotland, E." and 31° in "Ireland, S." and "England, N.W."

Rainfall has been rather more than the mean over central and north-western England and equal to the mean in "England N.E.", but in all other districts the fall was less than the average.

Bright sunshine was still very deficient, the percentages ranging from 29 in "Scotland, E." and about 20 in Ireland, to 2 in "England, S."

Depressions observed.—During the greater part of this period the barometer continued highest in the south-eastern part of our area, while some depressions were shown to the north-westward and northward of our Islands. The wind was light from between E. and S.S.E. in the S., generally moderate or fresh from the southward in the W., and from the south-westward in the N. By the 28th, however, the distribution had changed, pressure had increased briskly in the N., and a depression had appeared between Scilly and Valencia. This disturbance travelled eastwards and caused an easterly current to spring up, which, though moderate generally, increased to a fresh gale on the E. coast of England and over the Irish Sea at the close of the period.

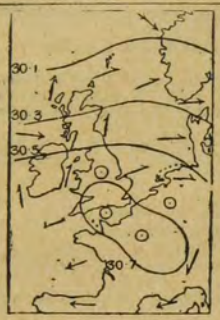
R 533. 460.—2/82. Wt. . E. & S.

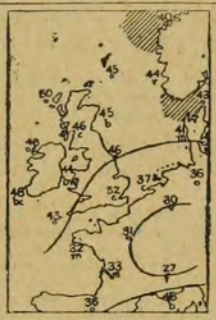
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 30, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.





Tuesday, January 24.

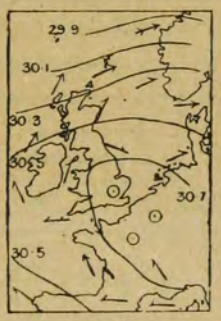
Weather fine at several of the eastern and north-eastern stations; cloudy or dull generally, with mist in several places. Fine all day in the E. and S.E., and dry everywhere.

Temperature risen in the N., fallen in the S.; readings ranging from 50° in the Hebrides to 32° in London. Maxima exceeding 50° in the N., but below 48° in the S.E.

Wind easterly over France and the Channel, south-westerly to westerly elsewhere; moderate in force on most coasts, but strong to a gale in Scandinavia. Little change later, but westerly wind stronger on our northern coasts.

Sea rough at Christiansund and the Scaw.

Barometer rising in all places except Sweden; pressure ranging from 30·73 ins. at Paris to 29·13 ins. at Haparanda. Slight decrease occurring in the N. later.



Wednesday, January 25.

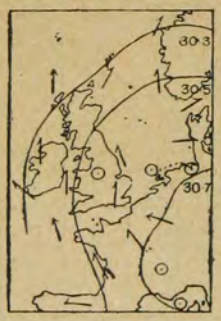
Weather fine at several eastern stations, still dull generally; fog or mist very prevalent—dense in London. Fog holding all day in the S.E. Sky rather cloudy, but hardly any rain.

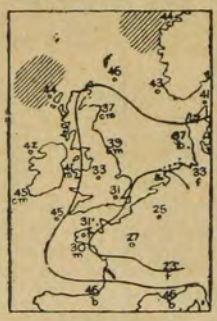
Temperature fallen generally, readings ranging from 50° at Stornoway to 26° in London. Low in the S. all day; maximum 51° at Wick, and only 36° at Oxford.

Wind little changed, still easterly in the S., and south-westerly to westerly in the W. and N.; moderate generally, but strong in the Hebrides and Shetlands and reaching a gale in Norway. No change later.

Sea rough round the N. coast of Scotland and at the Scaw.

Barometer falling in the S.W., rising elsewhere; anticyclone holding in the S.E., and pressure ranging from 30·79 ins. at Lyons to 29·21 ins. at Bodö. Falling in the S. and rising in the N. later.





Thursday, January 26.

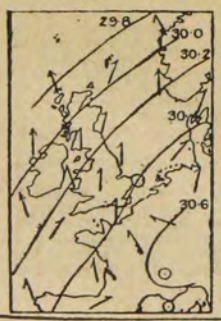
Weather cloudy or dull in nearly all places, and fog or mist still prevailing at several south-eastern stations. Fair during the day in the N., cloudy or dull generally, and slight rain in W.

Temperature fallen in almost all places, readings ranging from 47° at Roche's Point to 31° in the S.E. Slight increase during day, but maxima varying from 52° at Valencia to only 36° at Yarmouth.

Wind south-easterly over France, southerly on most of our coasts, and south-westerly to westerly over Scandinavia. Blowing strongly in the Hebrides and freshly at most western stations. Southerly and south-easterly winds all day, light in the E., fresh in the W.

Sea rough round the Hebrides and off the W. of Norway.

Barometer risen over Norway and Sweden, fallen elsewhere. Anticyclone shown still further eastward, and pressure ranging from 30·78 ins. at Lyons to 29·68 ins. at Haparanda. Pressure decreasing slowly and uniformly during day.



Friday, January 27.

Weather fine in N.E. Scotland and N.E. of France, dull generally with a good deal of fog and mist. Fine evening over the greater part of England; dull and rain in W.

Temperature risen fast in S. and S.E. and slightly except in Scandinavia. Readings ranging from 51° at Valencia to 34° at Shields. Rising all day and maxima between 50° and 55° in the S.W. and W.

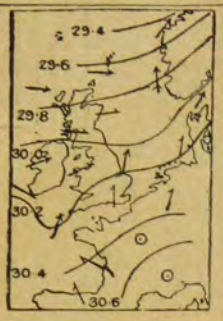
Wind southerly in nearly all places, light in the S.E., and strong to a gale in the W. and N.W. Southerly winds holding all day, still blowing a gale in the W. and N.

Sea rough in the W. and N.W. and off the W. of Norway.

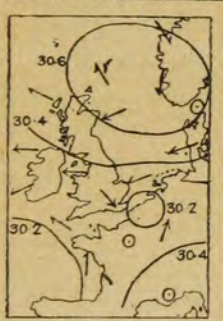
Barometer falling everywhere—quickly in the N.W.—and pressure varying from 30·66 ins. at Lyons to 29·64 ins. at Bodö. Pressure decreasing all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.



CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, January 28.

Weather fine in the N. and E. of these Islands and the W. of France; cloudy or dull generally, with mist and rain in Wales, and hail at Stornoway. Remaining fine in the N., dull and unsettled in the S.

Temperature fallen in the N. and W., risen in the S. and S.E.; ranging from 53° at Scilly, to 36° at Stornoway. Rising a little during day, and maxima varying between 39° and 54°.

Wind westerly in Scotland and Ireland, south-westerly and southerly elsewhere. Fresh or strong in most parts of the country. Little change later.

Sea rough at the mouth of the Channel, on our N.W. and N. coasts, and off the W. of Norway.

Barometer rising on our western coasts, falling elsewhere; pressure, highest 30·6 ins., in the S.E. of France, lowest, 29·1 ins., off the N.W. of Norway, but small depression forming off the S. of Ireland. Barometer rising in the N. later, but depression in S.W. becoming more marked.

Sunday, January 29.

Weather fine in Scotland and the W. of Ireland, dull in most other places; rain falling in N. Wales and N. of England. Rain extending to the S. of England also in the afternoon.

Temperature fallen generally; ranging from 50° in the S.W. of England to 31° at Nairn. Little change later, and maxima varying from 51° in the S.W. to 35° at Nairn.

Wind southerly and south-westerly in the S., easterly in the N., and north-easterly in Ireland; strong in the S.W. Shifting to N.W. and W. in the S.W. later, and continuing strong.

Sea rough in the S.W. and off Norway.

Barometer rising fast in Norway, Scotland, and Ireland, falling elsewhere, and depression in S.W. becoming much deeper. Disturbance passing quickly eastward later; barometer falling in E., rising in W.

Monday, January 30.

Weather cloudy or dull in nearly all places, with rain at Scilly and in the N.W. of France. Fine in the N.W. later, still dull generally, with rain in the S.W.

Temperature fallen in the S., risen in the N., ranging from 44° at Scilly to 32° at Nairn. Changing very little during day.

Wind easterly in nearly all parts of these Islands and over the North Sea, southerly over the Bay of Biscay, blowing strongly in the N.

Sea rough on our N.E. and N.W. coasts and at Christiansund.

Barometer risen fast in the N., fallen in the S.W. Large anticyclone to N., and depression from S.W. shown over the N.E. of France. Falling all day in the S.W. and W., rising slowly in the E.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	50	28	44·9	37·4	41·2	+2·1	4	0·33	−0·30	*	*
	Stornoway	51	31	45·6	38·0	41·8	+3·0	4	0·57	−0·63	10	18
	Wick	52	29	44·6	35·4	40·0	+1·8	2	0·17	−0·23	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	39	49·9	43·3	46·6	+1·4	4	1·29	+0·23	*	*
	Jersey (Noirmont)	50	30	43·3	35·4	39·4	−3·0	3	0·10	−0·60	12	19

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	52	30	44·0	37·1	40·6	+ 2·5	3	0·28	−0·17	*	*
	Aberdeen	54	30	45·3	35·9	40·6	+ 3·2	3	0·21	−0·30	16	29
	Leith	52	29	46·7	36·3	41·4	+ 3·1	3	0·22	−0·21	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	33	43·6	35·9	39·8	+ 2·1	3	0·26	?	*	*
	Shields	52	32	43·6	35·4	39·5	+ 1·4	3	0·12	−0·18	*	*
	Durham	50	30	43·6	34·0	38·8	+ 1·3	3	0·40	0·00	11	19
	York	50	28	44·0	33·1	38·6	− 0·2	3	0·66	+0·26	4	7
	Spurn Head	45	30	42·4	36·6	39·5	+ 1·2	3	0·66	?	*	*
3. ENGLAND, E.	Hillington ℳ	49	29	44·0	33·9	39·0	+ 0·7	3	0·55	+0·10	8	13
	Yarmouth	47	31	42·6	34·9	38·8	+ 0·2	2	0·30	−0·28	*	*
	Geldeston	50	31	44·6	35·4	40·0	+ 1·3	2	0·18	−0·22	8	13
	Cambridge	51	27	45·4	32·7	39·1	0·0	3	0·28	−0·05	12	20
	Rothamsted	50	24	44·7	33·9	39·3	+ 0·9	3	0·22	−0·40	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	50	32	45·1	33·7	39·4	+ 0·4	2	1·85	+1·45	*	*
	Nottingham	51	30	46·1	33·3	39·7	+ 0·8	3	1·33	+0·93	*	*
	Loughborough	50	30	44·9	34·3	39·6	+ 0·8	4	1·07	+0·55	*	*
	Leicester	50	30	44·9	34·9	39·9	+ 1·1	4	0·85	+0·37	2	3
	Birmingham (Oscott)	48	30	42·8	34·4	38·6	− 0·2	3	0·92	+0·17	*	*
	Cheadle ℳ	50	29	41·9	33·2	37·6	− 0·9	3	1·46	?	*	*
	Churchstoke ℳ	50	28	43·5	32·0	37·8	− 1·0	3	1·50	?	4	7
	Hereford ℳ	50	29	45·3	34·0	39·7	+ 0·1	5	1·09	+0·39	*	*
	Cirencester	51	24	45·0	33·4	39·2	+ 0·2	3	0·19	−0·66	4	7
	Oxford	52	24	45·3	34·1	39·7	+ 0·3	3	0·14	−0·40	3	5
5. ENGLAND, S.	London†	51	25	44·9	33·0	39·0	− 0·7	1	0·18	−0·33	3	5
	Marlborough ℳ	51	24	42·9	33·9	38·4	− 0·5	3	0·13	−0·67	0	0
	Strathfield Turgiss ℳ	52	24	44·6	34·2	39·4	− 0·2	1	0·14	−0·56	*	*
	Dover	47	30	44·3	36·3	40·3	+ 0·4	1	0·06	−0·62	*	*
	Hastings (St. Leonard's)	49	32	44·7	38·1	41·4	+ 1·7	1	0·16	−0·49	*	*
	Southampton	51	28	45·0	36·7	40·9	+ 0·6	1	0·13	?	1	2
	Hurst Castle	50	30	45·9	37·3	41·6	+ 0·8	1	0·13	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	51	28	47·4	38·2	42·8	+ 3·5	5	1·25	?	*	*
	Glasgow	49	30	44·4	37·9	41·2	+ 3·0	3	0·49	−0·76	3	5
	Ardrossan	48	32	44·0	38·6	41·3	+ 2·2	3	0·41	−0·69	*	*
	Silloth (Cumberland)	52	32	44·4	37·1	40·8	+ 1·7	2	0·26	−0·63	10	17
	Douglas (Isle of Man)	49	36	44·9	39·2	42·1	+ 2·1	2	0·23	−0·97	7	12
7. ENGLAND, N.W.	Barrow-in-Furness	48	33	43·6	36·9	40·3	+ 0·3	2	0·92	?	*	*
	Stonyhurst	47	32	41·9	34·6	38·3	− 0·5	3	0·87	−0·13	5	8
	Blackpool ℳ	50	31	43·2	34·6	38·9	+ 1·4	3	0·94	+0·25	*	*
	Manchester	48	31	42·3	33·6	38·0	− 0·9	3	0·75	+0·10	*	*
	Liverpool Obsy (Bidston)	52	33	44·0	36·1	40·1	+ 0·1	3	1·01	+0·49	*	*
	Llandudno ℳ										14	23
	Holyhead	49	34	45·4	39·1	42·3	+ 0·7	4	1·74	+0·92	*	*
8. ENGLAND, S.W.	Pembroke	50	38	47·4	40·3	43·9	+ 2·2	4	1·45	+0·41	7	11
	Arlington (N. Devon)	51	26	46·1	35·7	40·9	+ 1·1	4	0·51	−0·51	*	*
	Cullompton ℳ	53	24	48·0	36·1	42·1	+ 1·4	5	0·27	?	8	13
	Falmouth	54	34	48·0	41·8	44·9	+ 1·4	3	1·35	+0·42	9	15
	Plymouth	54	29	48·6	38·7	43·7	+ 1·1	4	0·48	−0·62	8	13
	Prawle Point	54	32	47·9	38·6	43·3	+ 2·3	2	0·36	?	*	*
9. IRELAND, N.	Londonderry	—	—	—	—	—	—	3	0·50	−0·41	*	*
	Mullaghmore	51	36	46·6	40·4	43·5	+ 3·0	3	0·45	?	*	*
	Markree Castle	51	28	46·4	35·1	40·8	+ 0·4	4	0·40	−0·35	12	20
	Brookeborough	51	30	46·1	35·8	41·0	+ 1·4	4	0·56	?	*	*
	Armagh	50	32	45·6	37·6	41·6	+ 1·7	4	0·43	−0·27	13	22
	Donaghadee	50	33	45·1	37·4	41·3	+ 0·6	3	0·31	?	*	*
10. IRELAND, S.	Dublin	54	38	47·5	40·0	43·8	+ 2·9	5	0·66	+0·67	12	20
	Parsonstown	52	31	45·9	34·9	40·4	+ 0·2	3	0·67	−0·06	13	21
	Waterford	51	36	46·6	38·9	42·8	+ 1·4	6	1·72	+0·60	*	*
	Roche's Point	53	36	48·9	40·3	44·6	+ 2·0	4	1·22	−0·24	*	*
	Valencia	54	33	50·1	40·7	45·4	+ 0·4	4	0·41	−1·12	11	18
	Foynes	53	31	48·1	37·3	42·7	+ 1·7	2	0·81	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, FEBRUARY 6, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	53	30	47	37	42	4 above.	2	2	3 less.	14	24
	2. ENGLAND, N.E.	50	27	43	33	38	0 (average).	0	less than ⅓	4 less.	9	14
	3. ENGLAND, E.	48	21	41	30	35	4 below.	0	less than ⅓	5 less.	17	27
	4. MID. COUNTIES	50	25	43	32	38	2 below.	0	less than ⅓	5 less.	15	23
	5. ENGLAND, S.	49	22	43	32	38	3 below.	0	—	6 less.	13	20
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	50	27	46	39	42	3 above.	4	5	8 less.	3	7
	7. ENGLAND, N.W.	49	28	44	36	40	0 (average).	2	1	6 less.	6	10
	8. ENGLAND, S.W.	52	28	46	38	42	0 (average).	0	less than ⅓	9 less.	20	32
	9. IRELAND, N.	53	32	48	39	44	3 above.	3	2	5 less.	11	17
	10. IRELAND, S.	55	34	50	40	45	3 above.	4	4	6 less.	13	21

General Remarks.

The weather during this period has been characterized by overcast skies, and dense fogs and mists, while very little rain has fallen.

Temperature has been a few degrees above the mean for the season in Ireland and Scotland, equal to the mean value in the S.W., W., and N. of England, and slightly below it elsewhere. The maxima varied from 48° in "England, E." to 55° in "Ireland, S."; while the minima ranged from 21° to 28° over England, 27° to 30° in Scotland, and 32° to 34° in Ireland.

Rainfall has been much less than the mean in all districts.

Bright sunshine shows a very slight increase, the percentages varying from 32 in "England, S.W." and 27 in "England, E.", to 7 in "Scotland, W."

Depressions observed.—The barometer has continued highest in the eastern and south-eastern parts of our area, while a few depressions have passed northward or north-eastward outside our western and northern coasts. The wind during the first two days was fresh or strong, but afterwards its force was moderate or very light. In direction it was generally from between S.E. and S.W., but towards the end of the period it became very variable, especially in the E. and S.E.

R 643. 460.—2/82. Wt. 14790. E. & S.

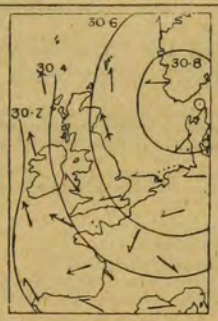
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 6, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, January 31.

Weather cloudy or dull except on our S.E. coast, with some mist or drizzle in the W. Rain at most of the western and northern stations; little other change.

Temperature fallen in the S.E., risen elsewhere, and readings ranging from 53° at Valencia to 32° at Nairn and 37° at Yarmouth. Maxima below 40° in extreme S.E., between 50° and 55° in extreme W.

Wind easterly over France and the Channel, south-easterly to southerly elsewhere; blowing freshly or strongly generally and reaching a gale at Aberdeen. Easterly gale at Scilly later, unchanged otherwise.

Sea rough except on our S. coasts.

Barometer falling rather briskly on our N.W. and N. coasts, rising elsewhere. Anticyclone lying over the S. of Scandinavia, with low pressures off our N.W. coasts. Mercury rising except in the N. during day.

Wednesday, February 1.

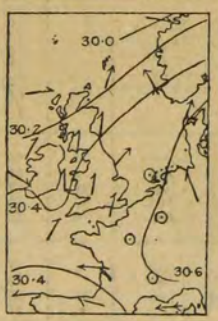
Weather in the N. and W. dull with some mist or drizzling rain, but on the whole fine and bright. Fair all day, except in Ireland and Scotland where slight rain falling.

Temperature fallen except in Scotland, readings ranging from 48° at Valencia to 28° at Cambridge. Maxima lower generally varying between 50° in S. Ireland and 38° in the S.E.

Wind easterly over France and the Channel, south-easterly to southerly over these Islands, fresh or strong except in the E. Little change later but southerly gale blowing in the Hebrides all day.

Sea rough in the S.W., W., and N.W., and at Toulon.

Barometer falling except in France, Ireland, and the S. of England. Anticyclone still shown over Denmark and relatively low pressures off our N.W. coasts. Falling generally during day.



Thursday, February 2.

Weather fine over France and S.E. of England cloudy or dull elsewhere with rain in the W. and N.W. Fair generally during day but foggy in London.

Temperature fallen in nearly all places and readings ranging from 46° in the S.W. to 25° in London. Cold all day in S.E. Maxima ranging from 54° at Valencia and 50° at Aberdeen to 36° at Cambridge.

Wind varying between S.E. and S.W., light or moderate on our coasts but strong at Skudesnaes. Very little change later.

Sea rough round the Norwegian coast and at Toulon.

Barometer falling generally, anticyclone passing eastward over Central Europe and slight depression shown over our W. and N.W. coasts. Barometer recovering everywhere later and depressions disappearing.

Friday, February 3.

Weather fine over the N.E. of Scotland, the greater part of France, and our S. coast, cloudy elsewhere, with much fog. Little change during day, but fog clearing away in evening.

Temperature risen except in the N.W.; readings ranging from 49° at Valencia, to 33° at Cambridge. Maxima about 50° in the S.W. and 48° in the N., but only 40° at Yarmouth.

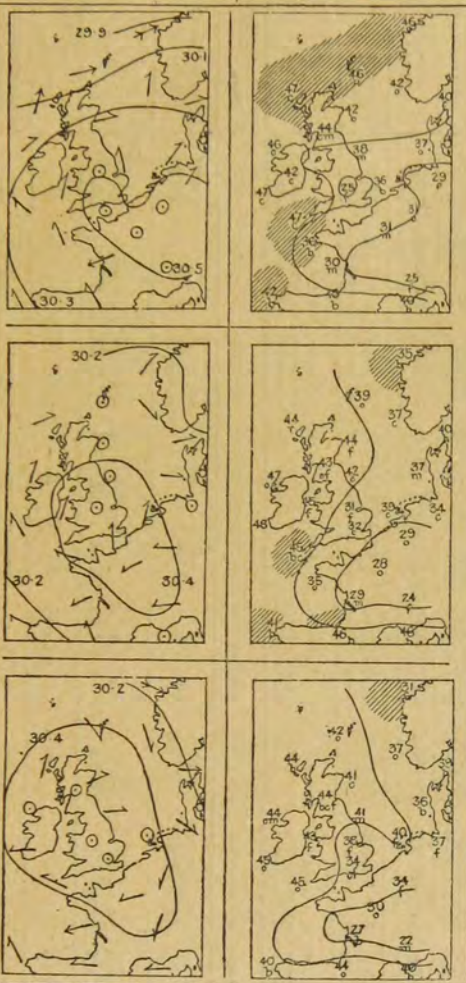
Wind easterly over France, between S.E. and S.W. on our coasts, blowing freshly at Scilly, and with the force of a gale at Stornoway, but moderate or light elsewhere. Little change of direction later, but force increasing in W.

Sea rough at Scilly, Stornoway, off the Norwegian coast, and at Toulon.

Barometer rising in the E., falling slightly in the W. and N. Anticyclone extending over us again, and readings high generally. Falling slowly during day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, February 4.

Weather variable, fine in some parts of the country, cloudy in others, and densely foggy over central England. Fair generally during day, but slight rain in extreme W., and fog over central districts.

Temperature risen somewhat in the N., fallen elsewhere; readings ranging from 47° in the W. to 25° at Oxford. Mild all day in the W. and N., but cold in the S.E.

Wind easterly over France, between S.E. and S.W. on our coasts, fresh at Stornoway, light or moderate elsewhere, with calms over central England. Light breezes all day, but wind shifting to N. in Scotland.

Sea rough in the N. and S.W.

Barometer falling everywhere, but change uniform and distribution little changed. Anticyclone still shown in S.E. Mercury falling slowly in S.E. later, rising somewhat elsewhere.

Sunday, February 5.

Weather generally cloudy or dull, with rain at Valencia and Stornoway, and fog or mist in most places. Fine at Yarmouth and Aberdeen during day, but cloudy and foggy generally.

Temperature fallen except in Ireland, and ranging from 48° at Valencia to 31° at Nottingham and 28° at Paris. Weather again mild in W. and N., and rather cold in S.E.

Wind light on all coasts,—from E. over France and the Channel, and from S. in the W. and N., with calms and variable airs inland. No change during day.

Sea slight or smooth, except in the S.W. and at Christiansund.

Barometer rising in Ireland, Scotland, and Scandinavia, falling elsewhere; high and uniform generally. Anticyclone lying over these Islands and France all day.

Monday, February 6.

Weather fine in a few places, cloudy, foggy, and misty generally. Slight drizzling rain at Aberdeen later, but weather dry, otherwise though dull and foggy.

Temperature fallen in most districts, and ranging from 45° in the S.W. to 30° at Oxford. Rising rather briskly during day, but weather continuing colder in S.E. than elsewhere.

Wind very light on nearly all our own and the French coasts, but strong from W. in Scandinavia. Easterly wind in the S. and S.W. becoming rather strong later in day.

Sea moderate to smooth, except at Christiansund.

Barometer falling over Norway and Denmark, rising elsewhere. Large anticyclone enveloping these Islands and France. Mercury rising somewhat and very uniform all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⋙⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Range of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	47	34	46·0	38·3	12·2	+2·3	7	0·57	−0·05	•	•
	Stornoway	49	34	47·9	40·1	13·0	+5·1	7	0·42	−0·74	5	9
	Wick	49	35	46·9	38·7	12·8	+4·5	3	0·43	+0·02	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	52	42	48·9	43·1	5·8	+0·7	0	—	−0·95	•	•
	Jersey (Noirmont)	46	30	41·0	34·6	17·8	−4·8	0	—	−0·64	28	43

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	50	30	48·0	38·1	43·1	+ 4·9	3	0·25	−0·14	*	*
	Aberdeen	53	33	48·1	36·7	42·4	+ 4·8	3	0·12	−0·48	14	24
	Leith	53	30	46·0	35·7	40·9	+ 2·4	1	0·16	−0·24	*	*
2. ENGLAND, N.E.	Alnwick Castle	48	27	43·5	33·0	38·3	+ 0·3	1	0·02	?	*	*
	Shields	50	29	44·7	35·0	39·9	+ 1·5	0	—	−0·40	*	*
	Durham	48	27	43·3	33·1	38·2	+ 0·5	0	—	−0·41	12	20
	York	47	27	42·3	31·0	36·7	− 2·3	0	—	−0·40	5	8
	Spurn Head	45	29	42·1	34·0	38·1	− 0·5	1	0·01	?	*	*
3. ENGLAND, E.	Hillington ℳ	47	24	41·2	28·5	34·9	− 3·6	0	§ 0·01	−0·42	15	24
	Yarmouth	44	31	40·3	33·3	36·8	− 2·1	0	—	−0·57	*	*
	Geldeston	48	24	42·6	31·0	36·8	− 2·1	0	§ 0·01	−0·39	21	33
	Cambridge	46	24	40·9	28·1	34 5	− 4·9	0	—	−0·31	15	24
	Rothamsted	45	21	40·3	27·9	34·1	− 4·6	0	§ 0·03	−0·55	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	47	26	44·1	30·1	37·1	− 2·1	0	—	−0·39	*	*
	Nottingham	46	26	43·1	30·9	37·0	− 2·1	1	0·01	−0·39	*	*
	Loughborough	49	27	44·9	31·3	38·1	− 1·0	1	0·03	−0·46	*	*
	Leicester	47	27	42·9	33·1	38·0	− 1·1	1	0·03	−0·42	16	26
	Birmingham (Oscott)	48	27	43·5	33·8	38·7	− 0·1	0	—	−0·62	*	*
	Cheadle ℳ	47	27	42·7	33·0	37·9	0·0	0	—	?	*	*
	Churchstoke ℳ	50	30	44·0	33·1	38·6	− 0·5	0	—	?	16	26
	Hereford ℳ	48	29	43·3	32·9	38·1	− 1·8	0	—	−0·63	*	*
	Cirencester	47	25	41·4	29·1	35·3	− 4·0	1	0·01	−0·77	15	24
	Oxford	46	25	42·1	29·7	35·9	− 3·8	0	—	−0·49	11	17
5. ENGLAND, S.	London†	45	24	41·6	29·7	35·7	− 4·2	0	—	−0·48	4	6
	Marlborough ℳ	46	25	41·7	30·4	36·1	− 3·0	0	—	−0·71	16	25
	Strathfield Turgiss ℳ	46	22	42·1	28·4	35·3	− 4·6	0	—	−0·62	*	*
	Dover	43	32	40·7	34·3	37·5	− 2·7	0	—	−0·58	*	*
	Hastings (St. Leonard's)	44	31	42·0	36·0	39·0	− 1·0	0	—	−0·57	*	*
	Southampton	48	29	44·8	32·4	38·6	− 2·0	0	—	?	18	28
	Hurst Castle	49	30	44·7	35·6	40·2	− 0·9	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	50	38	47·4	41·1	44·3	+ 4·8	4	1·36	?	*	*
	Glasgow	48	36	45·4	38·5	42·0	+ 3·6	6	0·32	−0·87	2	3
	Ardrossan	47	33	44·9	39·3	42·1	+ 2·8	4	0·36	−0·64	*	*
	Silloth (Cumberland)	49	27	44·8	36·3	40·6	+ 1·2	2	0·05	−0·76	6	10
	Douglas (Isle of Man)	48	37	45·0	40·3	42·7	+ 3·6	2	0·21	−0·86	?	?
7. ENGLAND, N.W.	Barrow-in-Furness	44	32	41·7	36·3	39·0	− 1·2	4	0·11	?	*	*
	Stonyhurst	46	28	42·1	34·6	38·4	− 0·6	1	0·03	−0·94	1	2
	Blackpool ℳ	47	29	43·2	33·7	38·5	− 2·0	2	0·04	−0·59	6	10
	Manchester	48	29	42·2	34·1	38·2	− 0·9	0	—	−0·60	*	*
	Liverpool Obsy (Bidston)	49	29	44·6	36·0	40·3	+ 0·1	0	—	−0·48	*	*
	Llandudno ℳ	48	32	45·2	37·7	41·5	+ 0·2	1	0·04	−0·64	12	19
	Holyhead	48	36	46·3	40·0	43·2	+ 1·5	4	0·17	−0·56	*	*
8. ENGLAND, S.W.	Pembroke	48	38	46·3	41·1	43·7	+ 1·9	1	0·03	−0·88	18	29
	Arlington (N. Devon)	48	28	44·0	35·0	39·5	− 1·0	0	—	−0·92	*	*
	Cullompton ℳ	50	28	46·0	34·0	40·0	− 1·0	0	—	?	17	27
	Falmouth	49	35	46·4	41·4	43·9	+ 0·3	0	—	−0·90	22	34
	Plymouth	52	30	47·4	36·6	42·0	− 0·7	0	—	−1·01	23	36
	Prawle Point	49	34	46·3	38·7	42·5	+ 0·9	0	—	?	*	*
9. IRELAND, N.	Londonderry	—	—	—	—	—	—	3	0·25	−0·58	*	*
	Mullaghmore	53	38	49·9	42·0	46·0	+ 5·3	2	0·24	?	*	*
	Markree Castle	52	34	49·4	37·4	43·4	+ 2·8	3	0·24	−0·48	10	16
	Brookeborough	52	32	48·2	37·4	42·8	+ 2·9	2	0·22	?	*	*
	Armagh	49	37	47·1	40·1	43·6	+ 3·5	3	0·11	−0·55	11	18
	Donaghadee	52	35	47·0	38·6	42·8	+ 1·9	3	0·26	?	*	*
10. IRELAND, S.	Dublin	51	34	48·2	40·0	44·1	+ 2·9	2	0·04	−0·48	9	15
	Parsonstown	51	35	49·9	37·6	43·8	+ 3·4	4	0·15	−0·49	16	26
	Waterford	51	36	47·7	40·7	44·2	+ 2·9	4	0·09	−0·90	*	*
	Roche's Point	52	38	50·7	43·0	46·9	+ 4·0	5	0 77	−0·48	*	*
	Valencia	55	37	52·0	42·7	47·4	+ 2·4	4	1·04	−0·32	13	21
	Foynes	55	36	51·1	38·7	44·9	+ 3·5	2	0·12	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Dew.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, FEBRUARY 13, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham* (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	53	31	49	37	43	4 above.	4	5	0 (average).	14	23
	2. ENGLAND, N.E.	56	32	47	37	42	3 above.	1	1	3 less.	10	15
	3. ENGLAND, E.	55	30	45	35	40	0 (average).	2	less than ½	4 less.	10	15
	4. MID. COUNTIES	56	29	47	37	42	2 above.	3	2	4 less.	10	15
	5. ENGLAND, S.	57	32	46	37	42	1 above.	2	1	4 less.	10	14
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	54	31	48	41	44	4 above.	5	16	3 more.	10	16
	7. ENGLAND, N.W.	56	34	47	39	43	2 above.	4	3	3 less.	10	15
	8. ENGLAND, S.W.	54	28	49	40	44	2 above.	4	3	6 less.	16	23
	9. IRELAND, N.	55	34	50	41	46	5 above.	5	8	1 more.	16	25
	10. IRELAND, S.	56	35	51	42	46	4 above.	6	12	4 more.	10	15

General Remarks.

Weather has been generally cloudy or dull; but towards the close of the period the sky cleared somewhat in the S. and E., and at some stations the weather became very fine and bright.

Temperature has been equal to the mean in "England, E.", but above it elsewhere; over Ireland and Scotland the excess was as much as 4° or 5°. The thermometer was highest on the 12th or 13th, when it rose to 57° in London, and to 55° or 56° at many other stations. The minimum reading for the period (28°) was registered at Cullompton on the 7th.

Rainfall has again been less than the mean in England, but in Ireland and Scotland the fall slightly exceeded the average.

Bright sunshine was still very little prevalent, the percentages varying from 25 in "Ireland, N." and 23 in "Scotland, E." to 14 in "England, S."

Depressions observed.—During the whole of this period the barometer has again been highest in the south-eastern part of our area and lowest to the westward or north-westward. The wind has consequently been between S. and S.W. and generally moderate in force; but owing to the passage of some depressions it freshened considerably at times on our western and northern coasts, and on the 9th, 10th, and 13th reached the force of a gale.

R 746. 460.—2/82. Wt. 14790. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 13, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 7.

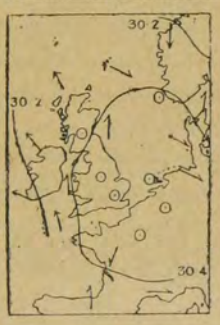
Weather fine in the N. of these Islands and the N.E. of France, dull generally, with fog over England. Dull with mist and fog all day, but scarcely any rain.

Temperature risen slightly in south-eastern and central England, fallen elsewhere; readings ranging from 46° at Roches Point to 33° at Aberdeen. Maxima between 41° and 48°.

Wind easterly over France and the Channel, south-easterly on our W. coasts, and westerly in the N., but calms and variable airs prevailing in the E. Little change during day.

Sea rough at Prawle Point and Christiansund.

Barometer rising in most places, but falling in the extreme S.W. and N. Large area of high pressure lying over these Islands and N. France. Slight uniform decrease occurring during day.



Wednesday, February 8.

Weather cloudy or dull generally with rain at Valencia and mist and fog in many places. Fine in the E. during day, but dull elsewhere and rain extending eastward.

Temperature fallen a little; ranging from 45° in S. Ireland to 36° at Aberdeen and 25° at Lyons. Rising somewhat later, and maxima between 40° and 52°.

Wind light from E. in central and eastern districts, fresh to moderate from S.E. and S. in the W. and N.W. Wind increasing a little in the S.W. and W. during day.

Sea rough at Valencia and Christiansund.

Barometer falling everywhere; large area of high pressure lying over England, the North Sea, and France, and comparatively low readings to the westward of Ireland. Falling all day.

Thursday, February 9.

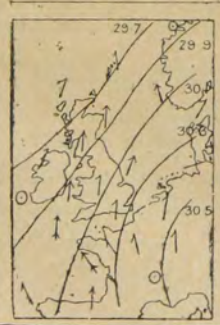
Weather cloudy or dull in nearly all parts of western Europe except the N.E. of Scotland; rain falling at several western and north-western stations, and fog or mist prevailing in several places. Little change later.

Temperature risen in the S.W. and W., fallen a little elsewhere; readings ranging from 51° in the S.W. to 35° in the S.E. Low all day in southern England. Maxima below 40° in S.E., but as high as 55° in Ireland and 50° at Nairn.

Wind southerly all over the country; very light in the S.E., fresh or strong in the W. and N.W. Strong to a gale in the W. and S.W. later, but light in the S.E.

Sea rough in the S.W. and N.W.

Barometer falling except over France. Pressure exceeding 30·5 ins. in E. France, and below 30·0 ins. on our extreme W. coasts. Falling slowly all day.



Friday, February 10.

Weather again dull generally, with rain in the W. and N.W. Fine on the S.E. coast of England during day, but cloudy generally and rain falling in W.

Temperature risen fast in N., changed little elsewhere; readings ranging from 50° in the S.W. to 34° in the S.E. Rising decidedly later, and maxima varying between 39° at Yarmouth and 53° at Valencia.

Wind south-easterly over France, southerly to south-westerly on our coasts; blowing a gale in the S.W., strongly in the W., and lightly in the S.E. No change during day.

Sea rough in the S.W. and off the W. of Norway.

Barometer falling everywhere—most in N.W. Large area of high pressure lying over E. France, with a depression off our N.W. coasts. Rising in W. and falling in E. during day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, February 11.

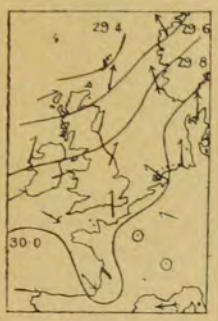
Weather fine in several parts of the Kingdom, but still cloudy or dull at some stations. Fine in the S.E. and E. all day, but cloudy elsewhere with showers of rain.

Temperature risen briskly over France and over S. coast, fallen quickly in Scotland, and changed irregularly elsewhere. Readings ranging from 50° in the S.W. to 37° in the E. of England. Maxima 54° at Scilly, and 53° in London.

Wind southerly all over the country, blowing strongly in the S.W. and lightly in the E. Moderate to strong southerly winds holding all day.

Sea rough in the S.W. and off the W. of Norway.

Barometer falling everywhere—quickly in W. Area of high pressure still shown over E. France, and of low pressure off our W. coasts. Rising in Ireland later, falling elsewhere.



Sunday, February 12.

Weather fine at all but our central stations, but dull and unsettled over the Continent. Rain falling in S. France. Fine weather all day in E., but dull and rainy in W.

Temperature fallen in most places, but risen fast in S.E. Readings ranging from 49° at Scilly and Cambridge to 41° in the N. High generally during day, 57° registered in London and 56° at Nottingham.

Wind south-westerly and westerly on most coasts, and light or moderate in force generally, but backing in the W. in the evening to S. or S.W. and rising to a gale.

Sea rough in the S.W., off the Norwegian coasts, and at Toulon.

Barometer rising at all except the Norwegian stations. Pressure lowest near the Shetlands and high over the Baltic and over the N. of Spain.

Monday, February 13.

Weather cloudy or dull at all except some of the French stations and rain falling in the W. and N.W. Clearing in the N. later, but continuing dull and unsettled generally.

Temperature risen everywhere—quickly in the W. and N.; readings ranging from 53° in the S.W. to 44° at Yarmouth. Falling briskly in N. later, but remaining high over England.

Wind south-westerly all over the Kingdom; fresh in the E., but strong to a gale in the W. and N.W. Veering towards W. later, but remaining strong and squally.

Sea rough except on our E. coast.

Barometer falling fast except over France; pressure varying from 30·4 ins. in the S.E. of France to below 29 ins. to the northward of Scotland. Recovery taking place generally later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head	—	—	—	—	—	—	—	—	—	*	*
	Stornoway	51	37	48·0	39·4	43·7	+4·7	5	1·03	−0·07	5	8
	Wick	49	29	47·0	35·9	41·5	+2·3	2	0·30	−0·12	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	39	51·6	44·6	48·1	+2·5	5	0·52	−0·29	*	*
	Jersey (Noirmont)	52	30	43·3	34·7	39·0	−4·3	2	0·12	−0·46	22	32

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	52	34	48·4	37·6	43·0	+ 4·4	3	0·61	+0·26	*	*
	Aberdeen	52	32	48·0	37·0	42·5	+ 4·3	4	0·12	−0·46	14	23
	Leith	53	31	50·1	36·4	43·3	+ 4·1	4	0·61	+0·13	*	*
2. ENGLAND, N.E.	Alnwick Castle	53	32	47·4	36·6	42·0	+ 3·3	2	0·27	?	*	*
	Shields	56	35	48·3	38·0	43·2	+ 4·1	1	0·02	−0·38	*	*
	Durham	55	32	47·3	36·4	41·9	+ 3·3	1	0·04	−0·38	11	17
	Scarborough ℞	54	36	46·1	38·5	42·3	+ 3·3	1	0·01	−0·37	*	*
	York	54	35	47·0	36·6	41·8	+ 2·0	1	0·01	−0·40	8	12
	Spurn Head	54	34	45·9	36·7	41·3	+ 2·0	0	—	?	*	*
3. ENGLAND, E.	Hillington ℞	54	31	46·5	35·0	40·8	+ 1·5	3	0·04	−0·39	7	11
	Yarmouth	51	32	43·1	34·7	38·9	− 0·9	0	—	−0·55	*	*
	Geldeston	52	32	44·8	35·5	40·2	+ 0·3	3	0·05	−0·36	12	18
	Cambridge	55	30	47·1	33·1	40·1	− 0·2	1	0·01	−0·29	11	16
	Rothamsted	53	31	45·6	35·0	40·3	+ 0·6	3	0·04	−0·47	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	34	48·4	36·9	42·7	+ 2·8	1	0·05	−0·35	*	*
	Nottingham	56	34	49·0	36·0	42·5	+ 2·5	4	0·17	−0·25	*	*
	Loughborough	56	35	47·8	37·0	42·4	+ 2·3	3	0·15	−0·42	*	*
	Leicester	55	34	47·4	37·7	42·6	+ 2·6	3	0·15	−0·27	10	15
	Birmingham (Oscott)										*	*
	Cheadle ℞	53	32	45·5	36·3	40·9	+ 2·0	3	0·31	?	*	*
	Churchstoke ℞	55	35	47·3	37·7	42·5	+ 2·6	2	0·24	?	11	17
	Hereford ℞	55	35	47·8	37·3	42·6	+ 1·9	3	0·13	−0·46	*	*
	Cirencester	52	29	45·6	33·9	39·8	+ 0·3	3	0·12	−0·56	8	12
	Oxford	55	30	47·0	36·1	41·6	+ 1·1	1	0·01	−0·54	11	16
5. ENGLAND, S.	London†	57	33	47·7	35·7	41·7	+ 1·0	1	0·10	−0·31	5	7
	Marlborough ℞	53	33	45·4	36·6	41·0	+ 1·1	2	0·07	−0·55	10	15
	Strathfield Turgiss ℞	54	33	47·1	36·2	41·7	+ 1·0	2	0·10	−0·43	*	*
	Dover	49	32	43·4	36·4	39·9	− 1·1	1	0·12	−0·38	*	*
	Hastings (St. Leonard's)	49	33	43·8	38·3	41·1	+ 0·4	2	0·13	−0·36	*	*
	Southampton	56	35	47·8	38·3	43·1	+ 1·7	2	0·07	?	14	21
	Hurst Castle	50	34	45·9	38·1	42·0	+ 0·2	2	0·06	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	53	38	49·0	40·5	44·8	+ 4·9	6	3·21	?	*	*
	Glasgow	51	37	47·1	40·6	43·9	+ 4·9	5	1·89	+0·79	2	14
	Ardrossan	50	38	46·4	41·3	43·9	+ 4·0	5	1·41	+0·51	*	*
	Silloth (Cumberland)	54	31	48·3	39·8	44·1	+ 3·9	4	0·80	+0·09	10	16
	Douglas (Isle of Man)	51	40	46·8	42·2	44·5	+ 3·9	4	0·74	−0·22	12	18
7. ENGLAND, N.W.	Barrow-in-Furness	50	36	46·3	38·9	42·6	+ 1·8	6	0·36	?	*	*
	Stonyhurst	52	35	45·8	38·5	42·2	+ 2·4	6	0·56	−0·35	6	9
	Blackpool ℞	52	35	46·9	37·8	42·4	+ 1·2	5	0·18	−0·42	2	14
	Manchester	54	34	46·9	37·6	42·3	+ 2·5	3	0·25	−0·32	*	*
	Liverpool Obs^{y} (Bidston)	56	36	48·4	38·6	43·5	+ 2·7	2	0·24	−0·16	*	*
	Llandudno ℞	—	—	—	—	—	—	3	0·17	−0·43	14	21
	Holyhead	51	36	48·4	41·7	45·1	+ 3·0	5	0·26	−0·36	*	*
8. ENGLAND, S.W.	Pembroke	51	40	48·6	43·6	46·1	+ 3·7	6	0·61	−0·20	12	18
	Arlington (N. Devon)	52	31	47·4	36·6	42·0	+ 0·8	4	0·41	?	*	*
	Cullompton ℞	54	28	48·3	35·9	42·1	+ 0·4	4	0·14	?	9	13
	Falmouth	54	39	49·3	43·8	46·6	+ 2·6	5	0·43	−0·47	19	28
	Plymouth	54	36	50·4	39·4	44·9	+ 1·5	3	0·14	−0·78	22	33
	Prawle Point	53	35	48·1	39·9	44·0	+ 1·6	2	0·07	?	*	*
9. IRELAND, N.	Londonderry	—	—	—	—	—	—	4	1·16	+0·41	*	*
	Mullaghmore	55	37	50·7	42·7	46·7	+ 5·6	5	1·04	?	*	*
	Markree Castle	54	34	50·6	39·0	44·8	+ 3·8	3	1·01	+0·31	14	22
	Brookeborough	53	36	50·1	40·2	45·2	+ 4·6	4	0·81	?	*	*
	Armagh	54	38	49·7	41·2	45·5	+ 4·7	5	0·51	−0·10	18	28
	Donaghadee	54	37	49·1	40·6	44·9	+ 3·6	7	0·39	?	*	*
10. IRELAND, S.	Dublin	56	40	51·0	42·9	47·0	+ 5·1	6	0·22	−0·24	12	18
	Parsonstown	55	35	51·6	40·4	46·0	+ 4·9	5	0·93	+0·38	9	14
	Waterford	52	36	49·8	41·5	45·7	+ 3·4	7	1·59	+0·74	*	*
	Roche's Point	53	36	50·7	41·3	46·0	+ 2·6	5	1·61	+0·51	*	*
	Valencia	55	40	52·6	43·1	47·8	+ 2·6	6	1·74	+0·55	8	12
	Foynes	56	35	51·1	39·6	45·4	+ 3·6	6	0·94	?	*	*

Stations marked ℞ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Note.—Scarborough has now been added to the list of Stations in "England, N.E."

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, FEBRUARY 20, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	55	27	48	35	42	3 above.	5	4	0 (average).	34	51
	2. ENGLAND, N.E.	55	29	49	38	44	4 above.	2	1	4 less.	27	39
	3. ENGLAND, E.	55	31	49	37	43	3 above.	4	9	5 more.	19	27
	4. MID. COUNTIES	56	30	49	38	43	3 above.	4	6	1 more.	17	25
	5. ENGLAND, S.	57	31	50	39	45	3 above.	4	4	0 (average).	16	23
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	52	30	48	38	43	3 above.	6	11	1 less.	19	28
	7. ENGLAND, N.W.	51	33	47	40	44	3 above.	6	5	(0 average).	15	22
	8. ENGLAND, S.W.	55	30	50	41	45	2 above.	4	7	1 less.	22	31
	9. IRELAND, N.	54	31	50	39	44	3 above.	5	6	1 less.	20	29
	10. IRELAND, S.	55	32	51	39	45	2 above.	5	5	3 less.	20	28

General Remarks.

Weather, though clearer than of late, has been generally cloudy, with occasional showers of rain.

Temperature has again been above the mean in all districts, the excess varying from 2° on our south-western coasts to 4° on our north-eastern coasts. The highest reading recorded (57°) was registered in London and at Strathfield Turgiss on the 14th; while the minima, which occurred generally on the 16th, ranged from 27° in "Scotland, E." to 33° in "England, N.W."

Rainfall has been a little more than the mean over eastern and central England, and equal to, or slightly less than, the mean value elsewhere.

Bright sunshine shows a considerable increase everywhere, the percentages ranging from 22 in "England, N.W." and 23 in "England, S.", to 39 in "England, N.E." and 51 in "Scotland, E."

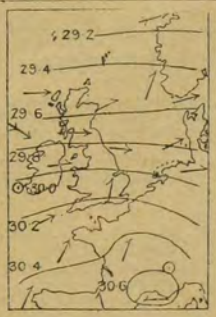
Depressions observed.—Pressure during this period, though high and comparatively steady in the S., has been subject to great and rapid changes in the N. Several depressions, some of which were very deep, have passed in an easterly direction over our northern coasts and across the North Sea, causing the wind to increase to a fresh or very strong gale from W. or N.W. in all the more northern parts of our Islands. At the close of the period, however, the weather was less disturbed, a large anticyclone being shown in the S.W. with moderate or light westerly breezes in nearly all parts of the Kingdom.

R 878. 460.—2/82. Wt. 14790. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 20, 1882.

Synoptic Weather Charts.—8 a.m.

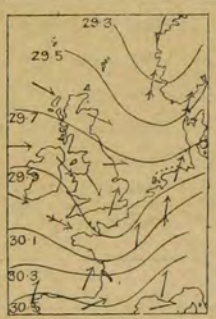
BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

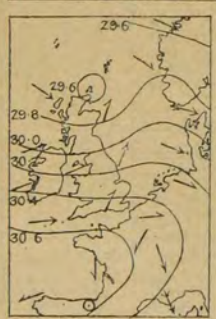
Tuesday, February 14.

Weather fair over a large part of the country, and fine in the N.E. and W., but hail and rain showers reported from the extreme N.W. Snow falling in the Hebrides in the afternoon, and rain setting in all along our W. coasts later.
Temperature fallen except in the S.E.—quickly in the W. and and N.; readings ranging from 51° at Scilly, to 36° at Wick. Rising during day, and maxima varying between 50° and 57° over central and southern England.
Wind westerly on nearly all our coasts, and south-westerly in Norway—blowing a gale at Mullaghmore and in W. Norway. Backing to S.W. and S. in the W. later, and increasing to a gale.
Sea rough round our S.W. and N.W. coasts as well as off the W. of Norway.
Barometer falling in Sweden, but rising in all parts of western Europe. Pressure varying from 30·6 ins. in southern France, to 28·6 ins. in N. Norway. Brisk fall commencing in W. later, and deep depression advancing over us.



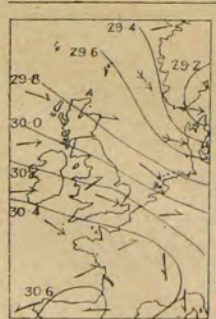
Wednesday, February 15.

Weather fine in the N.E. of Scotland, dull and unsettled elsewhere: snow and sleet falling on our N.W. coasts, and rain over nearly the whole of England. Showery all day, but clearing in evening.
Temperature fallen nearly everywhere; readings ranging from 50° in London, to 33° at Wick, and maxima during day varying between 37° at Nairn, and 52° at Roches Point.
Wind north-westerly to westerly on most of our coasts, but still south-westerly over France, the Channel, and the eastern shores of the North Sea. Blowing a gale in the S., and generally fresh and gusty. North-westerly winds extending to France and our S. coasts later.
Sea rough in the S.W. and W., as well as round the Norwegian coast.
Barometer rising in the extreme W., falling elsewhere. Large depression shown off the Norwegian coast, and smaller one near London. Both disturbances passing away later, and recovery from W. extending.



Thursday, February 16.

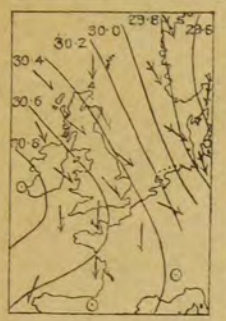
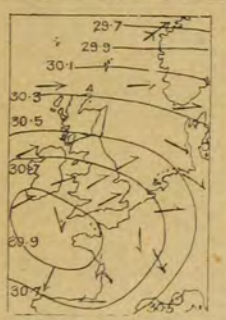
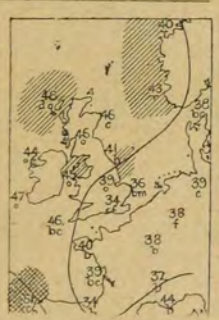
Weather fine over France and our S. and E. coasts, cloudy elsewhere, with rain over the S. of Scotland and N. of England. Dull and showery all day.
Temperature fallen in the S.E. and over France, risen elsewhere—quickly in the N.W. Readings ranging from 47° at Scilly to 37° in the N.E. and 34° in London. Maxima between 47° and 53°.
Wind westerly in nearly all parts of these Islands and the countries to the eastward of the North Sea, but drawing into N. in France. North-westerly gales blowing in Scotland later.
Sea rough in the S.W., W., and N.W., as well as round the Norwegian coast.
Barometer falling in N. Scotland, rising elsewhere. Large area of high pressure lying over the N.W. of France, with small depression over Caithness and a larger one in N. Scandinavia. Barometer falling all day.



Friday, February 17.

Weather fine over Scotland, cloudy or dull elsewhere; mist reported from some stations, and rain from Ardrossan and the Channel. Clearing in the S.E. in the evening, but rain setting in in the W. and N.
Temperature risen except in the extreme N. and W.; readings ranging from 49° at Scilly to 36° at Wick. Maxima uniform between 49° and 55°.
Wind westerly in nearly all places, moderate to fresh on our own and the French coasts, but blowing a gale in Norway and Denmark. Backing towards S.W. in the Hebrides later.
Sea rough in the S.W. and W., and round the Norwegian coast.
Barometer falling except in Scotland. Area of high pressure shown over the N. of Spain, and well marked depression over the S. of Sweden. Rising generally till evening, then beginning to fall in N.W.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	Weather during the 24 hours succeeding the date of the Charts.
		Saturday, February 18. *Weather* fine over the S.E. of England and in Sweden, cloudy or dull generally, with rain in the N.W. Unsettled all day with heavy showers of hail and snow in Scotland. *Temperature* risen except in the W. of France—most in the E. of Scotland—but falling fast in all districts during the day. *Wind* westerly all over the United Kingdom but drawing into S.W. and S. over the countries to the eastward of the North Sea. Blowing a severe gale in the Hebrides. Shifting to N.W. in the N. later and blowing a very hard gale. *Sea* very rough in the W. and N. *Barometer* falling everywhere—very rapidly in N. Scotland—and large depression advancing from Atlantic. Disturbance passing eastward later and recovery commencing in W. and N.W.
		**Sunday, February 19.** *Weather* fine in nearly all parts of these Islands and the N. of France, but snow falling in parts of Norway. Becoming cloudy, with rain in the N. later, but fine all day in S. *Temperature* fallen quickly everywhere, and ranging from 47° at Scilly to 36° at Cambridge and 38° at Wick. Maxima between 47° and 55°. *Wind* northerly and north-westerly in nearly all places, light or moderate on our coasts, but blowing a gale on the eastern shores of the North Sea. Backing to S.W. and W. in the W. and N. later. *Sea* rough in the N.E. and N.W. and at Scilly. *Barometer* rising generally—very rapidly indeed in N. Scotland—and readings ranging from 30·8 ins. at Valencia to 28·8 ins. in Sweden. Rising all day but increase very slight in N. and W.
		**Monday, February 20.** *Weather* fine on the eastern and southern coasts of England and over France, dull and rather gloomy elsewhere. Rain falling in the N. and N.W. during day; little other change. *Temperature* risen except in the S. and over France; ranging from 47° at Valencia to 34° in London and to 6° in Sweden. Moderately high all day. *Wind* westerly over the whole of these Islands and the countries to the eastward of the North Sea, but drawing into N. in France. Blowing strongly in N. Scotland. Strong north-westerly winds in the N. and N.E. all day. *Sea* rough in the N.W. and N.E. *Barometer* falling in Norway and Scotland, rising elsewhere; readings again highest in S.W., ranging from 30·9 at Scilly to 29·3 ins. in N. Norway. Falling slightly except in the N. during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
Scotland, N.	Sumburgh Head											
	Stornoway	50	27	47·1	34·3	40·7	+1·5	7	1·82	+0·74	13	20
	Wick	51	24	45·4	33·0	39·2	+0·6	7	0·58	+0·18	*	*
Channel Islands	Scilly (St. Mary's)	55	42	51·0	45·0	48·0	+2·2	6	0·50	−0·20	*	*
	Jersey (Noirmont)	51	40	49·7	42·4	46·1	+2·5	5	0·43	−0·11	32	45

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	52	32	46·4	36·1	41·3	+ 2·3	6	0·76	+0·45	*	*
	Aberdeen	55	27	48·4	34·0	41·2	+ 2·6	4	0·21	−0·33	34	51
	Leith	53	33	49·7	36·0	42·9	+ 3·3	4	0·30	−0·05	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	32	47·9	39·3	43·6	+ 4·4	3	0·07	?	*	*
	Shields	52	32	48·7	37·6	43·2	+ 4·0	4	0·11	−0·29	*	*
	Durham	54	29	49·8	35·0	42·4	+ 2·8	2	0·04	−0·42	29	43
	Scarborough ℳ											
	York	55	30	50·9	38·6	44·8	+ 4·6	2	0·04	−0·38	24	35
	Spurn Head	51	35	47·4	39·6	43·5	+ 4·0	1	0·06	?	*	*
3. ENGLAND, E.	Hillington ℳ	51	31	48·8	36·7	42·8	+ 3·6	4	0·93	+0·51	17	25
	Yarmouth	51	31	47·6	36·6	42·1	+ 1·8	5	0·75	+0·23	*	*
	Geldeston	54	31	49·8	37·8	43·8	+ 3·5	4	0·99	+0·59	21	30
	Cambridge	55	31	50·1	36·3	43·2	+ 2·5	3	0·98	+0·65	18	26
	Rothamsted	54	31	49·6	38·1	43·9	+ 3·9	5	0·79	+0·32	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	32	50·4	38·1	44·3	+ 4·0	2	0·05	−0·33	*	*
	Nottingham	56	30	50·6	37·0	43·8	+ 3·4	5	0·56	+0·15	*	*
	Loughborough	53	34	49·4	39·2	44·3	+ 3·8	4	0·76	+0·34	*	*
	Leicester	53	32	50·1	38·4	44·3	+ 3·8	3	0·91	+0·50	15	22
	Birmingham (Oscott)										*	*
	Cheadle ℳ	51	31	48·2	36·3	42·3	+ 3·0	6	0·64	?	*	*
	Churchstoke ℳ	51	32	48·9	35·9	42·4	+ 2·1	3	0·65	?	21	30
	Hereford ℳ	54	33	49·6	38·1	42·9	+ 1·8	3	0·63	+0·09	*	*
	Cirencester	51	31	47·9	36·4	42·2	+ 1·7	5	0·63	+0·02	17	25
	Oxford	55	33	49·3	38·4	43·9	+ 3·0	4	0·51	+0·11	15	22
5. ENGLAND, S.	London†	57	31	51·9	38·9	45·4	+ 4·2	2	0·39	−0·01	14	20
	Marlborough ℳ	55	31	49·4	37·0	43·2	+ 1·9	3	0·66	+0·11	15	21
	Strathfield Turgiss ℳ	57	31	51·8	37·6	44·7	+ 3·6	5	0·40	−0·05	*	*
	Dover	51	33	48·6	39·0	43·8	+ 2·3	5	0·35	−0·07	*	*
	Hastings (St. Leonard's)	52	32	48·9	39·3	44·1	+ 3·0	5	0·25	−0·15	*	*
	Southampton	55	32	51·3	39·2	45·3	+ 3·4	4	0·46	?	18	26
	Hurst Castle	56	34	50·1	40·0	45·1	+ 2·8	3	0·35	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	51	33	48·5	37·5	43·0	+ 2·9	7	3·04	?	*	*
	Glasgow	49	32	46·9	36·6	41·8	+ 2·4	7	0·86	−0·10	17	25
	Ardrossan	50	34	48·6	39·0	43·8	+ 3·6	7	0·74	−0·06	*	*
	Silloth (Cumberland)	52	30	47·4	39·8	43·6	+ 3·1	5	0·41	−0·21	19	28
	Douglas (Isle of Man)	51	35	48·8	38·4	43·6	+ 2·7	6	0·60	−0·28	21	31
7. ENGLAND, N.W.	Barrow-in-Furness	50	39	47·7	40·6	44·2	+ 3·1	6	0·51	?	*	*
	Stonyhurst	47	34	44·8	36·9	40·9	+ 0·9	6	1·12	+0·22	15	22
	Blackpool ℳ	49	38	46·8	41·9	44·4	+ 2·9	6	0·38	−0·17	16	24
	Manchester	51	33	47·9	38·4	43·2	+ 3·0	6	0·95	+0·40	*	*
	Liverpool Obs' (Bidston)	51	37	48·0	41·4	44·7	+ 3·4	5	0·25	−0·11	*	*
	Llandudno ℳ	—	—	—	—	—	—	6	0·36	−0·19	13	19
	Holyhead	51	40	49·0	41·3	45·2	+ 2·9	3	0·19	−0·37	*	*
8. ENGLAND, S.W.	Pembroke	50	39	48·6	43·1	45·9	+ 3·3	5	0·33	−0·38	20	29
	Arlington (N. Devon)	53	30	47·7	38·9	43·3	+ 1·6	5	1·17	?	*	*
	Cullompton ℳ	53	30	50·3	38·8	44·6	+ 2·4	4	0·33	?	20	29
	Falmouth	55	38	50·7	42·9	46·8	+ 2·6	5	0·99	+0·05	33	46
	Plymouth	55	33	51·0	39·5	45·3	+ 1·6	3	0·61	−0·24	15	21
	Prawle Point	55	36	50·1	40·1	45·1	+ 2·4	4	0·61	?	*	*
9. IRELAND, N.	Londonderry	54	31	51·3	35·9	43·6	+ 2·6	7	1·07	+0·37	*	*
	Mullaghmore	51	37	48·9	41·9	45·4	+ 4·0	6	0·84	?	*	*
	Markree Castle	54	33	49·9	38·8	44·4	+ 3·1	5	0·30	−0·40	17	25
	Brookeborough	52	35	48·8	38·2	43·5	+ 2·6	5	0·82	?	*	*
	Armagh	51	34	48·7	38·3	43·5	+ 2·4	5	0·31	−0·29	22	32
	Donaghadee	53	35	50·4	39·9	45·2	+ 3·7	4	0·24	?	*	*
10. IRELAND, S.	Dublin	53	36	50·3	39·5	44·9	+ 2·6	3	0·20	−0·20	23	32
	Parsonstown	51	32	49·9	37·9	43·9	+ 2·3	5	0·36	−0·14	21	30
	Waterford	55	32	50·9	37·2	44·1	+ 1·4	5	0·49	−0·40	*	*
	Roche's Point	55	36	51·6	39·3	45·5	+ 1·8	3	0·62	−0·37	*	*
	Valencia	53	35	51·7	39·9	45·8	+ 0·6	6	0·77	−0·29	16	23
	Foynes	51	35	49·4	38·9	44·2	+ 2·1	5	0·62	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, FEBRUARY 27, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	34	52	41	46	7 above.	3	5	1 more.	30	43
	2. ENGLAND, N.E.	58	34	50	41	46	6 above.	3	5	1 more.	13	19
	3. ENGLAND, E.	59	31	50	40	45	4 above.	4	2	2 less.	3	4
	4. MID. COUNTIES	56	32	50	40	45	5 above.	5	8	3 more.	3	5
	5. ENGLAND, S.	56	31	51	42	47	5 above.	4	5	1 more.	7	9
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	56	34	49	42	45	5 above.	5	8	1 more.	6	9
	7. ENGLAND, N.W.	56	36	48	42	45	4 above.	4	12	6 more.	6	9
	8. ENGLAND, S.W.	61	31	52	42	47	4 above.	4	10	2 more.	9	13
	9. IRELAND, N.	56	34	51	43	47	5 above.	5	7	0 (average).	8	11
	10. IRELAND, S.	58	35	52	44	48	5 above.	4	9	2 more.	10	14

General Remarks.

Weather during the earlier part of the period was moderately fine and dry, but towards the latter part it became very unsettled, with frequent, and in some places heavy, rain.

Temperature has continued above the mean in all districts, the excess varying from 4° in the W. and E. of England, to 7° in the E. of Scotland. The maxima were high for the season, a reading of 61° being recorded at Arlington (N. Devon) on the 22nd, while at many other stations the thermometer reached 58° or 59°. The minima ranged from 31° at Cambridge, Marlborough, and Cullompton, to 37° or 38° in Ireland.

Rainfall has been a little less than the mean in "England, E.", but rather more in nearly all other parts of the Kingdom.

Bright sunshine shows a decided decrease, and over the greater part of the country was very deficient. The percentages ranged from 4 in "England, E." to 43 in "Scotland, E."

Depressions observed.—During the first few days pressure was highest in the S.W., and lowest over Scandinavia, where some deep depressions were shown. The wind was consequently generally moderate or light from N.W. or W. On the 24th, however, the barometer fell quickly in the W., and by the 26th, a large "trough" of very low pressure, within which were three distinct minima, stretched from the N. of Ireland to the N. of Scandinavia. This "trough" moved slowly in a south-easterly direction, at the same time filling up somewhat. This distribution of pressure caused the wind to shift to S. or S.W. (and subsequently to E. in Scotland), and to increase to a fresh or strong gale on nearly all our coasts.

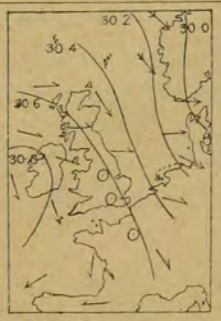
R 1001. 460.—3/82. Wt. 14790. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 27, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 21.

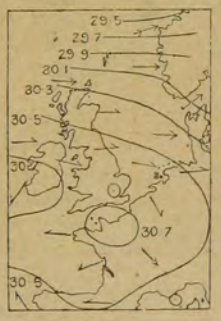
Weather fine in the E. of Scotland and parts of Scandinavia, cloudy or dull generally with slight rain, mist, or fog in several places. Fine in the E. during day, but cloudy or dull elsewhere.

Temperature risen in nearly all districts—quickly in the S.E.—readings ranging from 50° at Scilly to 45° in the N.E. Little change later, and maxima between 46° and 55°.

Wind westerly in N. Scotland, northerly on most other coasts; moderate to fresh in force here, but blowing a gale in Norway. Moderate northerly and north-westerly breezes blowing all day.

Sea rough on the Norwegian coasts and at Corunna.

Barometer rising at some of our northern stations and in N. Norway, falling elsewhere. Pressure highest off our S.W. coasts with large depression over Lapland. Increasing a little during day except in S.W.



Wednesday, February 22.

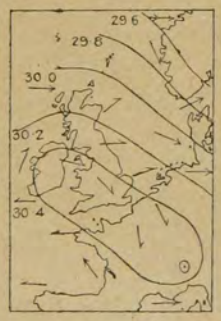
Weather fine on our N.E. and E. coasts, cloudy or dull generally, with some fog and mist. Fine in the N.E. and N. during day, dull elsewhere, but scarcely any rain falling.

Temperature fallen somewhat in these Islands, risen fast over Norway; readings ranging from 49° at Scilly to 39° at Oxford. Rising during day, and maxima uniform between 46° and 55°.

Wind westerly all over these Islands and Scandinavia, and easterly over France. Light or moderate on our coasts, still strong to a gale on the eastern shores of the North Sea. Strong north-westerly winds in the N. later.

Sea rough on the Norwegian coasts.

Barometer falling generally. Area of high pressure (30·7 ins.) shown in the S. and large depression (28·8 ins.) in far N. Falling slowly and uniformly all day.



Thursday, February 23.

Weather fine on our N. and N.E. coasts as well as in the S. and W. of France, cloudy or dull generally. Dull all day except in Scotland.

Temperature fallen briskly over France and slightly generally; readings ranging from 48° at Scilly to 31° in Norway and 34° at Lyons. Maxima between 44° and 54°.

Wind westerly over our more northern districts and the eastern shores of the North Sea, but easterly over France and the Channel. Backing to S. in Ireland later.

Sea slight generally.

Barometer falling decidedly over western Europe, but recovering again in Norway. Area of high pressure lying over France and our southern districts. Falling all day.

Friday, February 24.

Weather fine in the N.E. of Scotland and parts of France, cloudy or dull generally, with some fog, mist, or gloom. Cloudy or dull all day except on some parts of our N.E. and S.E. coasts.

Temperature risen in the S.E., fallen generally; readings ranging from 49° in the S.W. to 38° at Aberdeen and York. Rising during day, and maxima between 45° and 54°.

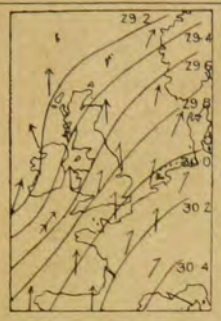
Wind easterly over France and our S. coast, southerly in all our other districts and over the countries to the eastward of the North Sea. Moderate in force at most stations, but backing to S.E. in the W. later, and increasing in force.

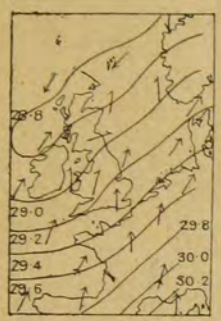
Sea rough at Valencia and Christiansund.

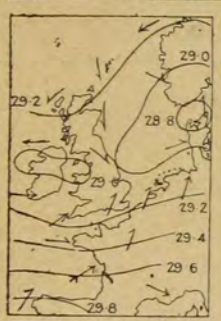
Barometer falling except in Scandinavia, Denmark, and the E. of France. Large area of high pressure lying over central Europe, with low barometer off the W. of Ireland and over Lapland. Brisk decrease occurring in Ireland later.

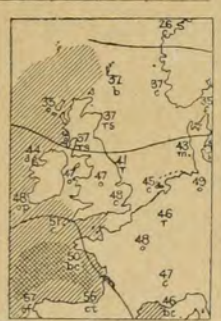
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Saturday, February 25.

Weather dull in nearly all places, with rain at most of our stations. Dull rainy weather holding all day.

Temperature risen generally—considerably in the S.E.; readings high, ranging from 53° at Scilly to 44° at Aberdeen, and maxima varying between 52° and 57° except in the W. and N. of Scotland, where the highest readings were below 50°.

Wind south-westerly to southerly, light to moderate in force in the E., but strong to a gale in the W. and N.W. Strong south-westerly winds and gales all day.

Sea rough in the S.W., as well as round the Hebrides and on the Norwegian coast.

Barometer falling very fast in the W. and briskly in all parts of western Europe. Pressure highest in the S.E. of France, with large depression off Ireland. Falling quickly all day.

Sunday, February 26.

Weather very unsettled; dull and showery in all districts. Clearing somewhat in the S.E. later but dull and rainy generally.

Temperature fallen in the S.W., W., and N.W., risen elsewhere, and ranging from 37° in the Shetlands to 53° at Nottingham. Maxima below 50° on our N.W. and N. coasts, but as high as 58° in the N.E. and 56° in the S.E. of England.

Wind north-easterly and northerly in the W. of Norway and over the Shetlands and Hebrides, south-westerly or southerly in all other places, strong in force generally. Little change later, but wind veering to W. in the S.

Sea rough in the N. and S.W.

Barometer falling fast everywhere; large depression shown in the N.W. and N., and readings still highest in the S.E. of France. Recovery commencing in N. later and depression passing southward.

Monday, February 27.

Weather unsettled and showery generally, snow falling in Scotland. Fine in Scotland in the afternoon and evening, dull and showery elsewhere.

Temperature fallen everywhere—quickly in the N.—and readings ranging from 51° at Scilly, to 32° in the Shetlands. Maxima varying between 36° in the extreme N., and 54° in the S.W.

Wind easterly in the N. and westerly in the S. and over France, blowing freshly or strongly in most places. Little change later.

Sea rough in the S.W., W., and N.

Barometer rising briskly in Scandinavia, Scotland, and Ireland, and slightly except in France. Pressure varying from 29·4 ins. in Lapland, and 29·7 ins. in S. France, to 28·8 ins. over the Skager Rock. Rising all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	50	33	46·7	41·7	44·2	+4·9	6	0·49	−0·53	6	8
	Wick	51	32	47·9	39·9	43·9	+5·2	4	0·28	−0·12	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	44	53·4	46·6	50·0	+4·1	4	0·80	+0·20	*	*
	Jersey (Noirmont)	54	40	50·7	43·3	47·3	+3·7	4	0·74	+0·18	31	41

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	55	36	49·3	43·4	46·4	+ 7·2	3	0·59	+0·29	*	*
	Aberdeen	56	34	52·4	38·9	45·7	+ 5·9	3	0·49	−0·01	30	43
	Leith	59	36	52·6	41·1	46·9	+ 7·2	3	0·38	+0·07	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	35	49·7	39·7	44·7	+ 5·4	2	0·29	?	*	*
	Shields	56	38	50·6	40·6	45·6	+ 5·9	3	0·14	−0·26	*	*
	Durham	58	34	51·8	40·0	45·9	+ 6·8	4	0·52	+0·04	16	23
	Scarborough ⁂	55	39	51·4	41·6	46·5	+ 7·0	4	0·78	+0·40	*	*
	York	55	37	50·9	45·7	48·3	+ 8·0	4	0·80	+0·38	10	14
	Spurn Head	53	37	48·1	40·6	44·4	+ 4·6	3	0·42	?	*	*
3. ENGLAND, E.	Hillington ⁂	54	34	49·8	38·9	44·4	+ 4·5	5	0·22	−0·18	2	3
	Yarmouth	55	34	49·6	39·9	44·8	+ 4·4	2	0·04	−0·46	*	*
	Geldeston	56	38	49·5	41·0	45·3	+ 4·8	3	0·11	−0·31	3	4
	Cambridge	59	31	50·9	38·3	44·6	+ 3·7	4	0·18	−0·17	3	4
	Rothamsted	54	35	50·0	40·4	45·2	+ 4·1	5	0·56	+0·12	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	35	52·0	41·3	46·7	+ 6·2	3	0·93	+0·58	*	*
	Nottingham	56	37	51·1	39·9	45·5	+ 5·0	4	0·59	+0·17	*	*
	Loughborough	55	38	50·0	41·8	45·9	+ 5·2	4	0·49	+0·09	*	*
	Leicester	54	38	50·4	41·0	45·7	+ 5·1	5	0·41	+0·01	1	1
	Birmingham (Oscott)	53	36	?48·5	?40·4	?44·5	?+ 4·4	6	0·64	+0·10	*	*
	Cheadle ⁂	52	35	47·3	39·3	43·3	+ 3·9	5	0·93	?	*	*
	Churchstoke ⁂	53	35	49·0	40·8	44·9	+ 4·5	5	1·26	?	2	3
	Hereford ⁂	53	37	50·6	41·6	46·1	+ 4·5	5	1·03	+0·54	*	*
	Cirencester	52	32	49·4	37·7	43·6	+ 3·0	4	0·92	+0·40	5	7
	Oxford	56	35	51·3	40·3	45·8	+ 4·7	4	0·52	+0·12	5	7
5. ENGLAND, S.	London†	56	33	52·3	42·0	47·2	+ 5·7	3	0·45	+0·08	3	4
	Marlborough ⁂	54	31	50·4	39·8	45·1	+ 4·5	4	1·05	+0·55	7	10
	Strathfield Turgiss ⁂	56	38	53·1	42·0	47·6	+ 6·3	4	0·56	+0·16	*	*
	Dover	56	38	49·9	42·1	46·0	+ 4·3	3	0·27	−0·15	*	*
	Hastings (St. Leonard's)	52	41	50·0	43·2	46·6	+ 5·2	4	0·32	−0·08	*	*
	Southampton	55	41	53·2	44·1	48·7	+ 6·7	4	0·72	?	10	14
	Hurst Castle	53	35	51·1	41·7	46·4	+ 4·0	5	0·29	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡										*	*
	Glasgow	53	35	49·6	42·4	46·0	+ 6·5	5	0·50	−0·34	9	13
	Ardrossan	51	34	47·4	42·1	44·8	+ 4·9	5	0·71	−0·01	*	*
	Silloth (Cumberland)	56	37	49·4	42·2	45·8	+ 5·5	4	1·10	+0·54	7	10
	Douglas (Isle of Man)	50	34	48·3	40·5	44·4	+ 3·4	4	0·98	+0·19	2	3
7. ENGLAND, N.W.	Barrow-in-Furness	53	40	48·3	42·4	45·4	+ 4·2	4	1·32	?	*	*
	Stonyhurst	52	36	48·7	40·3	44·5	+ 4·4	5	1·51	+0·64	8	11
	Blackpool ⁂	52	38	47·6	41·8	44·7	+ 3·1	4	1·03	+0·52	4	6
	Manchester	54	37	48·7	40·0	44·4	+ 4·1	4	1·25	+0·74	*	*
	Liverpool Obsy (Bidston)	56	39	48·9	43·3	46·1	+ 4·7	4	0·79	+0·46	*	*
	Llandudno ⁂											
	Holyhead	50	42	48·3	44·3	46·3	+ 3·9	4	1·02	+0·51	*	*
8. ENGLAND, S.W.	Pembroke	51	42	49·4	44·9	47·2	+ 4·4	6	1·27	+0·57	9	12
	Arlington (N. Devon)	61	37	51·7	40·3	46·0	+ 4·2	4	1·25	?	*	*
	Cullompton ⁂	56	31	53·2	38·3	45·8	+ 3·5	4	0·88	?	8	11
	Falmouth	55	44	51·7	46·2	49·0	+ 4·7	5	1·23	+0·43	11	15
	Plymouth	56	35	53·4	41·3	47·4	+ 3·6	4	0·69	−0·07	9	12
	Prawle Point	53	37	51·6	42·9	47·3	+ 4·5	3	0·47	?	*	*
9. IRELAND, N.	Londonderry	56	34	52·0	40·5	46·3	+ 5·1	7	0·91	+0·29	*	*
	Mullaghmore	55	39	50·0	44·0	47·0	+ 5·5	6	0·55	?	*	*
	Markree Castle	55	40	50·8	43·0	46·9	+ 5·3	4	0·21	−0·49	7	10
	Brookeborough	54	39	50·9	42·7	46·8	+ 5·7	5	0·77	?	*	*
	Armagh	55	39	50·4	43·2	46·8	+ 5·6	5	0·78	+0·25	8	11
	Donaghadee	54	37	49·3	41·3	45·3	+ 3·7	4	0·70	?	*	*
10. IRELAND, S.	Dublin	58	41	51·7	45·3	48·5	+ 6·1	5	0·58	+0·18	8	11
	Parsonstown	57	40	51·9	43·0	47·5	+ 5·2	4	0·63	+0·14	9	13
	Waterford	55	35	50·9	42·8	46·9	+ 4·1	4	1·18	+0·43	*	*
	Roche's Point	54	39	52·0	43·9	48·0	+ 4·2	3	0·82	−0·10	*	*
	Valencia	54	38	52·1	45·0	48·6	+ 3·3	4	0·94	−0·06	14	19
	Foynes	57	41	51·2	43·6	47·4	+ 5·2	4	1·21	?	*	*

Stations marked ⁂ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, MARCH 6, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	53	29	44	34	39	1 below.	6	8	4 more.	16	21
	2. ENGLAND, N.E.	52	29	45	37	41	1 above.	6	9	5 more.	10	13
	3. ENGLAND, E.	53	28	48	37	43	2 above.	4	6	2 more.	19	26
	4. MID. COUNTIES	57	27	48	37	42	2 above.	4	10	6 more.	19	24
	5. ENGLAND, S.	52	28	50	39	44	2 above.	5	9	4 more.	29	38
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	51	31	45	37	41	0 (average)	6	11	3 more.	10	14
	7. ENGLAND, N.W.	52	32	46	38	42	1 above.	6	13	8 more.	8	11
	8. ENGLAND, S.W.	55	28	50	40	45	2 above.	6	11	4 more.	28	37
	9. IRELAND, N.	54	34	48	38	43	1 above.	7	15	9 more.	14	19
	10. IRELAND, S.	55	35	49	41	45	2 above.	6	15	8 more.	14	19

General Remarks.

Weather has been very unsettled and dull with rather heavy rain in the S., and rain, snow, or sleet in the N.

Temperature, though lower than during last week, has still been above the mean in England and Ireland, but in Scotland it was slightly below. The thermometer was generally highest on the 5th or 6th, the maxima ranging from 51° in "Scotland, W." to 55° at some of our south-western stations and 57° at Hereford. The minima were lower than of late, and varied from 27° in the "Midland Counties" to 35° in "Ireland, S."

Rainfall has been more than the mean in all districts, the excess in the W. and N.W. being rather large.

Bright sunshine shows a decrease in the extreme N.E., but an increase elsewhere. The percentage was greatest (38) in "England, S." and least (11) in "England, N.W."

Depressions observed.—At the commencement of the period the barometer was rising in all parts of our area with moderate southerly or south-westerly winds; but by 8 A.M. on March 1st, the mercury had fallen rapidly and an irregularly shaped area of low pressure, around which were steep gradients, was shown over England and Ireland. This disturbance caused, at first, strong easterly winds or gales in the N., and fresh or strong westerly gales in the S.; but as it slowly filled up, the force of the wind gradually abated, and by the evening on the 3rd had become very light from the eastward on all our coasts. From the 4th until the close of the period, the barometer was highest in the southern parts of our area, while depressions travelled in an easterly direction across our northern coasts, giving us south-westerly to north-westerly winds, which occasionally increased to a strong breeze or fresh gale.

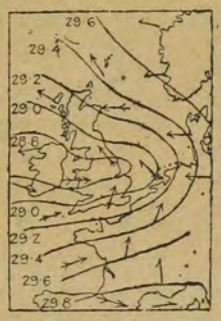
R 1134. 460.—3/82. Wt. 14790. E. & S.

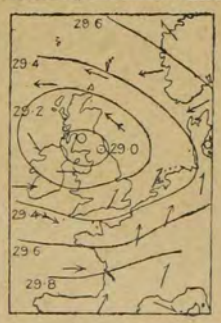
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending March 6, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 28.

Weather cloudy or dull in nearly all places, with a good deal of fog, mist, or drizzling rain, and snow in the S. of Scotland. Heavy rain setting in the S.W. later, and weather very unsettled.

Temperature fallen generally — quickly over Scandinavia. Ranging from 50° at Scilly, to 32° at Nairn and 16° at Christiansund. Maxima 50° or above in the S. and S.W., but below 40° in Scotland.

Wind varying considerably. Moderate to fresh from S.W. in the S., strong from S.E. and E. in the N., and moderate to strong from N.E. in Norway and Sweden. South-easterly gale springing up at Scilly later, and strong south-easterly winds prevailing elsewhere.

Sea rough on our S.W., N., and N.E. coasts.

Barometer rising except at Valencia, but distribution complex; areas of high pressure existing in Lapland and southern France, and of low pressure off the Irish coast and over the Baltic. Deep depression appearing in the S.W. later.

Wednesday, March 1.

Weather exceedingly unsettled, rain falling at very many stations, hail on our south-western coasts, and snow at Aberdeen. Rain and hail showers occurring all day.

Temperature fallen in the W. and S.W., and over France, risen in the E. and N.; readings ranging from 47° at Yarmouth, to 36° at Nairn. Maxima below 50°, except in the S.E., below 40° in the N.

Wind westerly over our southern districts, the Channel, and France, easterly over the North Sea and our more northern coasts; strong to a gale in force. Little change during day.

Sea rough to high on nearly all coasts.

Barometer inclined to recover in the S. of Ireland, falling in all other places; large depression stretching across Ireland and central England, with areas of high pressure over Lapland and southern France. Rising in the W. and S. during day.

Thursday, March 2.

Weather fine in the S.E. of England and in the N. of Scandinavia, cloudy or dull elsewhere with rain at many stations. Fair all day in the S. and S.W., rainy generally.

Temperature risen in the N., fallen in most other places; ranging from 45° on our S. coast to 37° at Wick. Maxima between 42° and 52°.

Wind still westerly and south-westerly in the SW., S., and S.E., and easterly in the N., blowing freshly or strongly; gale holding at Aberdeen. Little change later.

Sea rough to high on most parts of the coast.

Barometer rising in most places; depression still shown over northern England, but centre filling up. Fresh fall appearing in S.W. later, but barometer rising elsewhere.

Friday, March 3.

Weather again fine in the S.E. of England, cloudy, dull, and unsettled elsewhere. Weather clearing slowly and becoming generally fine by the evening.

Temperature risen in the N., fallen elsewhere, and readings ranging from 45° at Valencia to 37° at Oxford. Maxima varying between 42° and 52°.

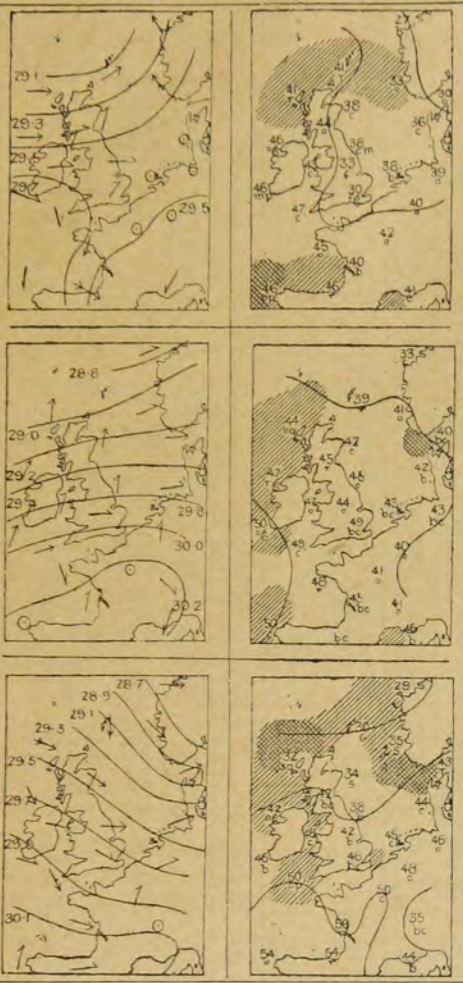
Wind southerly over France and the greater part of England, but easterly in the N. and northerly in the W. Blowing a gale in the S.W. of France, but moderately in most places. Easterly winds general later.

Sea rough in the S.W. and W., high in the N.E.

Barometer falling in the S.W., rising elsewhere. Fresh depression shown over Bay of Biscay and joining the depression in the N. Both depressions passing away over France later and barometer rising.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 4.

Weather fine though foggy in the S.E. and S., dull in the W. and N., with rain in the Hebrides. Cloudy weather and showers slowly spreading over us, but not reaching the S.E.

Temperature risen in the W. and N.W., fallen elsewhere, and readings ranging from 47° at Scilly to 30° in London and 27° at Christiansund.

Wind westerly in the W., but drawing into S.W. and S. in the N., and into N.W. and N. in the S.; moderate to fresh in force. Westerly winds becoming general later.

Sea rough in the Bay of Biscay and on our N. coasts.

Barometer rising briskly in the S., falling in the N. Large area of high pressure shown in the S.W., with a depression advancing on our northern coasts. Rising in W. later, and disturbance passing on towards Norway.

Sunday, March 5.

Weather fine at some south-eastern stations as well as in N. Germany and Denmark, cloudy or dull generally with rain in the N.W. Cloudy all day with some showers.

Temperature risen in all districts—very fast in S.E.—and ranging from 50° at Valencia to 39° in the Shetlands. Maxima uniform, varying between 47° and 53°.

Wind south-westerly and westerly, strong to moderate. Becoming westerly on most coasts in the evening and blowing strongly.

Sea rough in the W., and at Skagen and Toulon.

Barometer falling in the W. and N., rising in the S.E. and over France. Pressure highest over France and lowest to the northward of Scotland. Falling all day.

Monday, March 6.

Weather fine at most of the English and Irish stations, but cloudy, with snow showers, in the N. of Scotland. Becoming overcast with rain in Ireland later, but continuing fine elsewhere.

Temperature fallen briskly in nearly all districts, and ranging from 50° at Scilly to 30° in the Shetlands. Maxima varying between only 36° in N. Scotland to 55° in south-western England.

Wind between N.W. and W., varying in force from a fresh gale in the Hebrides to a light breeze in the S.E. Wind shifting to S.E. in W. Ireland later.

Sea rough in the W. and N., and round the Norwegian coast.

Barometer rising quickly over these Islands, falling on the Continent. Pressure highest over N. Spain and lowest over Scandinavia. Decrease appearing at Valencia in evening, but rise holding elsewhere.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head										*	*
	Stornoway	50	30	43·6	34·6	39·1	−0·5	6	0·28	−0·72	15	20
	Wick	51	32	41·9	34·7	38·3	−0·7	7	2·11	+1·75	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	40	50·4	43·7	47·1	+0·9	6	1·00	+0·45	*	*
	Jersey (Noirmont)	52	37	48·6	41·7	45·2	+0·9	6	1·37	+0·73	27	35

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	52	29	42·3	33·1	37·7	− 1·8	5	0·64	+0·35	*	*
	Aberdeen	53	31	45·0	34·9	40·0	− 0·1	7	1·03	+0·53	16	21
	Leith	51	31	44·3	34·7	39·5	− 0·8	6	0·63	+0·33	*	*
2. ENGLAND, N.E.	Alnwick Castle	49	29	43·1	35·6	39·4	− 0·2	6	0·98	?	*	*
	Shields	51	34	44·1	36·4	40·3	+ 0·3	6	1·01	+0·63	*	*
	Durham	51	30	44·0	34·3	39·2	− 0·2	6	0·97	+0·52	9	12
	Scarborough ℞	50	34	45·0	37·2	41·1	+ 1·2	5	0·89	+0·50	*	*
	York	52	30	46·4	36·3	41·4	+ 0·8	6	1·25	+0·84	10	13
	Spurn Head	50	36	45·9	39·6	42·8	+ 2·7	4	0·55	?	*	*
3. ENGLAND, E.	Hillington ℞	52	28	48·0	36·4	42·2	+ 2·0	2	0·55	+0·16	13	17
	Yarmouth	50	35	47·0	38·0	42·5	+ 1·8	4	0·55	+0·07	*	*
	Geldeston	52	31	48·1	37·7	42·9	+ 2·0	3	0·55	+0·15	24	32
	Cambridge	53	28	50·3	36·1	43·2	+ 0·8	4	0·54	+0·19	21	28
	Rothamsted	51	28	48·3	35·6	42·0	+ 1·6	6	0·94	+0·54	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	52	32	48·4	38·1	43·3	+ 2·3	4	0·75	+0·40	*	*
	Nottingham	52	30	49·6	36·4	43·0	+ 2·0	5	0·97	+0·55	*	*
	Loughborough	52	31	48·5	37·4	43·0	+ 1·9	4	1·01	+0·61	*	*
	Leicester	50	33	47·4	37·4	42·4	+ 1·5	5	0·95	+0·57	9	12
	Birmingham (Oscott)	52	27	47·9	35·8	41·9	+ 1·5	3	1·07	+0·52	*	*
	Cheadle ℞	48	29	45·7	34·9	40·3	+ 0·6	4	1·33	?	*	*
	Churchstoke ℞	52	29	47·8	35·4	41·6	+ 0·8	4	1·38	?	22	29
	Hereford ℞	57	29	50·8	38·0	44·4	+ 2·7	3	0·87	+0·45	*	*
	Cirencester	51	28	47·9	35·7	41·8	+ 0·8	7	0·96	+0·48	20	26
	Oxford	52	32	49·1	38·0	43·6	+ 2·1	5	0·82	+0·42	23	30
5. ENGLAND, S.	London†	52	29	51·3	39·0	45·2	+ 3·3	4	0·48	+0·14	20	26
	Marlborough ℞	50	28	49·0	36·1	42·6	+ 1·6	5	1·07	+0·59	32	42
	Strathfield Turgiss ℞	52	28	51·4	36·7	44·1	+ 2·4	5	0·84	+0·46	*	*
	Dover	50	38	47·7	40·6	44·2	+ 1·8	6	0·99	+0·56	*	*
	Hastings (St. Leonard's)	51	34	48·0	40·4	44·2	+ 2·4	4	0·88	+0·48	*	*
	Southampton	52	30	51·2	39·3	45·3	+ 2·5	4	0·82	?	36	47
	Hurst Castle	51	30	49·0	40·0	44·5	+ 1·4	4	0·89	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	51	31	44·7	37·3	41·0	+ 0·5	7	1·38	?	*	*
	Glasgow	49	32	43·7	36·7	40·2	0·0	7	0·93	+0·20	11	15
	Ardrossan	50	31	45·7	35·4	40·6	− 0·2	6	0·85	+0·22	*	*
	Silloth (Cumberland)	48	35	44·7	37·6	41·2	0·0	6	0·76	+0·26	9	12
	Douglas (Isle of Man)	49	36	45·7	38·4	42·1	+ 0·8	6	1·56	+0·85	11	14
7. ENGLAND, N.W.	Barrow-in-Furness	47	36	45·4	38·6	42·0	+ 0·5	7	1·66	?	*	*
	Stonyhurst	49	33	45·6	36·2	40·9	+ 0·5	7	1·85	+1·04	9	12
	Blackpool ℞	49	33	46·3	38·6	43·0	+ 1·1	6	1·48	+0·98	8	11
	Manchester	49	32	45·2	36·4	40·8	+ 0·2	6	0·98	+0·48	*	*
	Liverpool Obs' (Bidston)	52	38	47·3	39·4	43·4	+ 1·7	6	0·77	+0·47	*	*
	Llandudno ℞	—	—	—	—	—	—	5	1·09	+0·61	8	11
	Holyhead	50	39	47·1	40·6	43·9	+ 1·4	6	1·58	+1·08	*	*
8. ENGLAND, S.W.	Pembroke	49	39	47·9	42·9	45·4	+ 2·1	6	1·07	+0·42	21	28
	Arlington (N. Devon)	50	30	48·1	37·1	42·6	+ 0·4	6	1·52	?	*	*
	Cullompton ℞	53	28	50·5	36·8	43·7	+ 1·0	5	0·83	?	32	42
	Falmouth	52	37	49·4	41·8	45·6	+ 2·9	7	1·76	+1·00	33	43
	Plymouth	54	34	51·5	39·8	45·7	+ 1·5	5	0·84	+0·14	27	36
	Prawle Point	55	37	50·3	40·6	45·5	+ 2·3	6	0·57	?	*	*
9. IRELAND, N.	Londonderry	54	34	49·2	35·5	42·4	+ 0·8	7	1·25	+0·65	*	*
	Mullaghmore	53	38	48·3	40·6	44·5	+ 2·5	7	2·61	?	*	*
	Markree Castle	52	35	48·5	38·7	43·6	+ 1·4	7	2·47	+1·77	15	20
	Brookeborough	52	35	47·3	37·7	42·5	+ 0·9	6	1·18	?	*	*
	Armagh	52	35	47·8	38·2	43·0	+ 1·4	6	0·83	+0·33	13	17
	Donaghadee	53	36	48·1	38·4	43·3	+ 1·4	6	0·86	?	*	*
10. IRELAND, S.	Dublin	54	37	48·4	40·0	44·2	+ 1·5	5	1·61	+1·22	11	14
	Parsonstown	53	35	48·7	38·6	43·7	+ 1·2	5	1·14	+0·64	12	16
	Waterford	51	35	48·5	39·8	44·2	+ 1·1	6	1·65	+0·90	*	*
	Roche's Point	55	36	51·3	40·3	45·8	+ 1·7	5	1·80	+0·95	*	*
	Valencia	54	40	51·4	42·6	47·0	+ 1·7	7	1·20	+0·22	19	25
	Foynes	53	40	47·4	41·6	44·5	+ 1·5	7	1·52	?	*	*

Stations marked ℞ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, MARCH 13, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	58	28	54	37	46	6 above.	4	6	2 more.	32	41
	2. ENGLAND, N.E.	61	29	55	39	47	6 above.	1	less than ½	4 less.	24	30
	3. ENGLAND, E.	60	29	55	40	48	7 above.	1	1	3 less.	21	26
	4. MID. COUNTIES	64	28	56	41	48	7 above.	1	less than ½	4 less.	19	24
	5. ENGLAND, S.	59	31	58	44	48	6 above.	3	1	4 less.	15	18
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	55	31	51	41	46	5 above.	5	9	1 more.	18	23
	7. ENGLAND, N.W.	57	32	51	42	47	5 above.	2	1	4 less.	14	17
	8. ENGLAND, S.W.	64	30	53	44	48	5 above.	5	3	4 less.	17	21
	9. IRELAND, N.	58	31	54	39	47	5 above.	5	6	1 more.	20	25
	10. IRELAND, S.	61	31	55	43	49	5 above.	4	4	3 less.	28	36

General Remarks.

Weather, though generally dull during the earlier part of the period, with rain in the W. and N., became very fine and dry towards its close.

Temperature has been above the mean in all districts, the excess ranging from 5° in most of the western districts, to as much as 7° over eastern and central England. The highest reading (64°) was registered at Cullompton on the 7th and at Nottingham on the 10th, while at most other stations the maxima varied between 55° and 63°. The minima occurred either on the 7th or 13th and were rather low, ranging from 28° in "Scotland, E." and the "Midland Counties", to 32° in "England, N.W."

Rainfall has been a little more than the mean over Scotland and in "Ireland, N.", but less elsewhere.

Bright sunshine shows a slight increase in most districts, the percentages varying from 17 in "England, N.W." and 18 in "England, S.", to 41 in "Scotland, E." and 36 in "Ireland, S."

Depressions observed.—The barometer has been highest over France and the extreme S. of England and lowest over Scotland and Scandinavia. Depressions travelled in a north-easterly direction across our northern coasts during the greater part of the week, causing the gradients for south-westerly winds to grow steep and the wind to increase to a fresh or moderate gale on our western and northern coasts. Towards the close of the period, however, the barometer became more uniform and the winds light or moderate in all parts of the Kingdom.

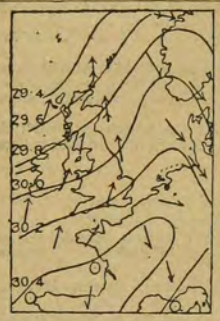
R 1244. 460.—3/82. Wt. 14790. E. & S.

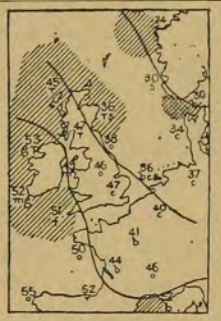
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending March 13, 1882.

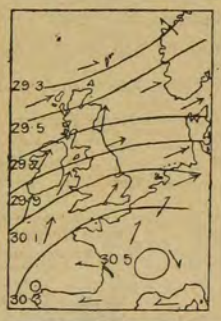
Synoptic Weather Charts.—8 a.m.

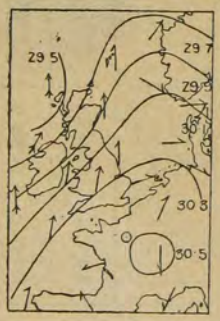
BAROMETER AND WIND.

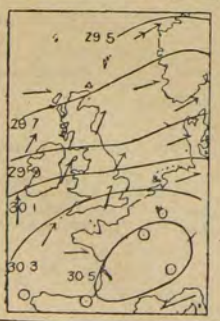
CLOUD, RAIN, SEA, AND TEMPERATURE.











Weather during the 24 hours succeeding the date of the Charts.

Tuesday, March 7.

Weather fine in parts of France and at Dover, dull and unsettled elsewhere, with rain in several places. Fair over the S.E. of England in the evening, dull and rainy or misty elsewhere.

Temperature risen fast in the W. and N.W., and slightly except in the S.E.; readings ranging from 53° at Mullaghmore, to 36° in N.E. Scotland. Maxima 63° at Nottingham, 61° at Parsonstown, and 60° at Oxford.

Wind south-westerly and southerly all over the country, blowing moderately in the S.E., strongly in the W., and with the force of a gale in N. Scotland. South-westerly strong winds and gales blowing all day.

Sea rough in the S.W., W., and N., and on the Norwegian coasts.

Barometer rising over France, the S. and S.E. of England, and the countries to the eastward of the North Sea, falling in the W. Pressure giving way all day, and large disturbance shown in N.

Wednesday, March 8.

Weather cloudy or overcast except in the S.E. of France and N.E. of Scotland, mist or drizzling rain reported from several western stations, and fog from some places. Sky clearing and weather fair in most districts later.

Temperature risen except in W. Ireland; readings high, ranging from 53° at York, to 47° over the Clyde. Maxima high and uniform, varying between 49° and 59°.

Wind south-westerly generally, fresh to strong all over the country. Veering to W. later in day, and rising to a gale in N. Scotland.

Sea rough in the S.W., W., and N.W., and off southern Norway.

Barometer falling on our western coasts, in the S.W. of France, and over Scandinavia, rising elsewhere. Anticyclone lying over France, with depression between the Shetlands and Norway. Depression moving away later, and barometer rising.

Thursday, March 9.

Weather again fine in parts of France and over N. Germany, dull and unsettled generally. Rain falling in Scotland and Ireland. Cloudy all day except on our E. coast, and rain falling in W.

Temperature fallen a little in most places; readings ranging from 53° over central England to 44° at Aberdeen. Maxima about the same as those on the 8th, varying between 49° and 59°.

Wind south-westerly and southerly, light or moderate in the E., strong to a gale in the W. and N.W. Veering to W. in the N. later, but still blowing a gale.

Sea rough all round our more western and the Norwegian coasts.

Barometer again falling at all our more western stations, rising elsewhere. Anticyclone still lying over France, with large depression off the N.W. of Scotland. Depression passing eastward later; barometer rising in W., falling in E.

Friday, March 10.

Weather cloudy or dull except in the S.E. of France, with rain, mist, or fog in the W. Clearing in the E. during day, but still rainy and misty in the W.

Temperature changed little, but fallen in most places: ranging from 55° at York to 41° at Stornoway. Rising all day, and maxima 64° at Nottingham and 60° at York and Cambridge.

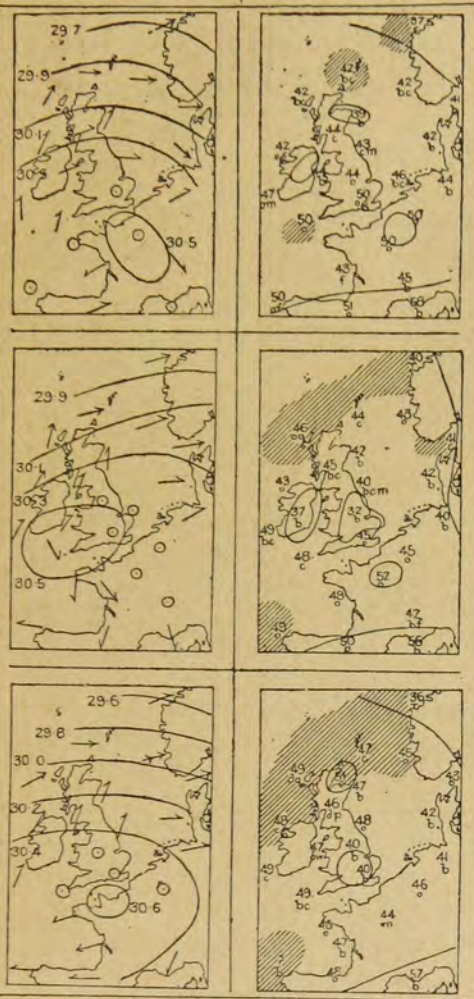
Wind southerly and south-westerly, fresh in force at most stations, and blowing a gale in W. Norway. Veering to W. in evening, and still blowing strongly.

Sea rough in S.W. and W., and on the coast of Norway.

Barometer rising in the W. and over France, falling in the E. and over Scandinavia. Anticyclone over France, and depression in N. Rising generally during day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 11.

Weather fine except at our south-western and central stations and the W. of France. Fair generally during day, but gloomy, wet weather setting in in the Metropolis and neighbourhood in evening.

Temperature fallen briskly—particularly over central England; ranging from 50° at Scilly to 37° at Parsonstown and 39° at Aberdeen. Maxima between 47° and 54°.

Wind light and variable in the S., but between S.W. and W. on our more northern coasts and over Scandinavia. Blowing rather strongly at the Norwegian and Danish stations. Strong south-westerly winds in N. Scotland later.

Sea rough at Scilly, Sumburgh Head, Christiansund, and in the Skager Rack.

Barometer rising in all places except the S. of France. Anticyclone over France spreading northward over these Islands. Rising generally all day, but slight depression forming over London.

Sunday, March 12.

Weather dull over France, our extreme N.W. coasts, and in the W. of Norway, fine and bright elsewhere. Fine except in the W. during the day and scarcely any rain falling.

Temperature fallen briskly over England, risen in most other places; readings ranging from 49° at Valencia and 46° at Stornoway to 32° at Nottingham. Maxima between 46° and 58°.

Wind southerly and south-westerly over the whole of the northern parts of these Islands and Scandinavia, variable and light in our south-eastern districts, north-easterly over the Channel and France, south-westerly gale blowing at Stornoway later.

Sea rough in the N.

Barometer rising in most places. Large anticyclone lying over Ireland, England, and France, with shallow depression in far N. Falling except in France and on our S. coast later, and gradients increasing in N.

Monday, March 13.

Weather dull with showers of drizzling rain on our N.W. coasts and dull and unsettled over Scandinavia, but fine and bright elsewhere. Fine in most places all day, but slight rain falling in Shetlands and Hebrides.

Temperature fallen in the S.E. of England and W. of France, risen elsewhere, high in N.; readings ranging from 52° at Wick to 36° at Oxford. Maxima between 49° and 58°.

Wind south-westerly and westerly all over the more northern half of our area, north-easterly and easterly in the southern; blowing strongly in the N., lightly elsewhere. No change of importance later.

Sea rough in the N.W. and N. and on the Norwegian coasts.

Barometer rising over the whole of these Islands and France, falling on the eastern shores of the North Sea. Anticyclone still shown in the S. but slight decrease of pressure taking place within it later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	50	23	48·0	36·6	42·3	+4·0	7	1·40	+1·02	*	*
	Stornoway	53	29	50·0	39·0	44·5	+4·7	7	1·40	+0·43	16	21
	Wick	55	24	51·9	34·1	43·0	+3·9	3	0·10	−0·23	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	42	54·1	47·4	50·8	+4·5	5	0·12	−0·38	*	*
	Jersey (Noirmont)	52	43	51·0	44·4	47·7	+3·4	0	—	−0·70	7	9

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	56	28	52·1	37·4	44·8	+ 5·0	5	0·74	+0·44	*	*
	Aberdeen	58	29	55·3	36·7	46·0	+ 6·6	2	0·05	−0·40	32	41
	Leith	57	30	54·4	37·9	46·2	+ 5·6	4	0·90	+0·60	*	*
2. ENGLAND, N.E.	Alnwick Castle	54	34	52·4	39·4	45·9	+ 5·8	2	0·16	?	*	*
	Shields	58	32	55·1	36·4	45·8	+ 5·3	0	—	−0·35	*	*
	Durham	58	29	54·5	36·6	45·6	+ 5·7	0	—	−0·45	28	35
	Scarborough ℔	61	34	56·1	41·6	48·9	+ 8·6	0	—	−0·38	*	*
	York	60	33	56·9	38·6	47·8	+ 6·8	1	0·04	−0·35	20	25
	Spurn Head	58	37	54·1	40·7	47·4	+ 6·8	0	—	?	*	*
3. ENGLAND, E.	Hillington ℔	59	29	55·9	38·7	47·3	+ 6·6	1	0·01	−0·35	14	18
	Yarmouth	57	35	53·3	41·1	47·2	+ 6·0	0	—	−0·43	*	*
	Geldeston	58	34	56·0	41·2	48·6	+ 7·4	1	0·01	−0·38	26	33
	Cambridge	60	32	57·4	39·9	48·7	+ 7·0	1	0·18	−0·13	22	28
	Rothamsted	56	31	54·1	40·0	47·1	+ 6·2	5	0·18	−0·22	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	63	32	58·3	39·6	49·0	+ 7·7	1	0·02	−0·33	*	*
	Nottingham	64	28	59·3	38·7	49·0	+ 7·7	1	0·01	−0·39	*	*
	Loughborough	62	29	57·1	40·6	48·9	+ 7·5	0	—	−0·40	*	*
	Leicester	61	35	55·8	41·5	48·7	+ 7·3	3	0·03	−0·35	18	23
	Birmingham (Oscott)	61	34	56·3	40·5	48·4	+ 7·5	0	—	−0·44	*	*
	Cheadle ℔	58	31	54·0	38·6	46·3	+ 6·1	1	0·02	?	*	*
	Churchstoke ℔	60	33	55·3	40·6	48·0	+ 7·0	1	0·01	?	23	29
	Hereford ℔	61	30	57·0	41·0	49·0	+ 7·0	1	0·10	−0·30	*	*
	Cirencester	56	29	53·8	40·4	47·1	+ 5·7	5	0·16	−0·28	15	19
	Oxford	60	34	56·3	43·0	49·7	+ 7·9	1	0·02	−0·37		
5. ENGLAND, S.	London†	58	35	55·3	44·1	49·7	+ 7·5	1	0·01	−0·34	11	14
	Marlborough ℔	59	32	54·7	41·6	48·2	+ 6·9	3	0·10	−0·34	20	25
	Strathfield Turgiss ℔	58	31	56·3	41·0	48·7	+ 6·7	2	0·08	−0·37	*	*
	Dover	53	38	50·4	44·7	47·6	+ 4·9	2	0·08	−0·36	*	*
	Hastings (St. Leonard's)	52	39	50·6	44·8	47·7	+ 5·6	3	0·06	−0·34	*	*
	Southampton	58	34	54·5	44·3	49·4	+ 6·5	3	0·09	?	13	16
	Hurst Castle	53	38	50·7	44·3	47·5	+ 4·2	3	0·04	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	55	31	51·5	40·9	46·2	+ 5·6	7	1·80	?	*	*
	Glasgow	53	31	50·8	39·4	45·1	+ 4·7	7	0·78	+0·17	16	21
	Ardrossan	51	34	49·3	41·4	45·4	+ 4·3	5	0·77	+0·17	*	*
	Silloth (Cumberland)	51	32	50·8	41·0	45·9	+ 4·4	4	0·80	+0·35	18	23
	Douglas (Isle of Man)	53	34	51·0	40·4	45·7	+ 4·2	3	0·33	−0·33	19	24
7. ENGLAND, N.W.	Barrow-in-Furness	52	37	49·6	43·1	46·4	+ 4·5	3	0·09	?	*	*
	Stonyhurst	54	32	50·7	39·2	45·0	+ 4·4	4	0·32	−0·48	11	14
	Blackpool ℔	53	34	50·8	42·5	46·7	+ 4·6	2	0·04	−0·45	15	19
	Manchester	56	34	53·0	39·6	46·3	+ 5·3	1	0·01	−0·48	*	*
	Liverpool Obsy (Bidston)	57	38	53·7	44·4	49·1	+ 7·2	0	—	−0·30	*	*
	Llandudno ℔	—	—	—	—	—	—	1	0·01	−0·42	15	19
	Holyhead	53	41	50·7	44·0	47·4	+ 4·4	4	0·06	−0·41	*	*
8. ENGLAND, S.W.	Pembroke	52	40	50·0	44·7	47·4	+ 3·8	5	0·16	−0·45	11	14
	Arlington (N. Devon)	54	32	51·4	41·7	46·6	+ 4·1	7	0·63	?	*	*
	Cullompton ℔	64	39	56·6	42·6	49·6	+ 6·6	2	0·16	?	20	25
	Falmouth	54	41	52·6	46·9	49·8	+ 5·1	5	0·25	−0·45	24	30
	Plymouth	55	36	53·2	45·4	49·3	+ 4·7	5	0·24	−0·45	13	16
	Prawle Point	53	40	51·1	44·7	47·9	+ 4·3	5	0·41	?	*	*
9. IRELAND, N.	Londonderry	58	34	56·1	37·9	47·0	+ 5·1	5	0·45	−0·15	*	*
	Mullaghmore	56	39	53·7	42·9	48·3	+ 5·9	6	0·72	?	*	*
	Markree Castle	56	31	52·6	38·4	45·5	+ 3·0	4	0·59	−0·12	24	30
	Brookeborough	55	35	52·7	39·6	46·2	+ 4·3	4	0·65	?	*	*
	Armagh	56	37	52·8	41·0	46·9	+ 4·9	5	0·82	−0·37	15	19
	Donaghadee	57	36	54·3	39·6	47·0	+ 4·7	5	0·62	?	*	*
10. IRELAND, S.	Dublin	61	39	56·2	43·8	50·0	+ 6·9	2	0·08	−0·32	34	43
	Parsonstown	61	35	55·4	41·6	48·5	+ 5·7	5	0·29	−0·33	20	25
	Waterford	55	31	52·2	42·6	47·4	+ 3·9	4	0·23	−0·52	*	*
	Roche's Point	59	35	55·0	42·9	49·0	+ 4·6	4	0·85	+0·04	*	*
	Valencia	56	39	54·9	45·4	50·2	+ 4·9	5	0·36	−0·59	31	39
	Foynes	60	39	54·8	42·5	48·7	+ 5·5	4	0·41	?	*	*

ERRATA.—In report for week ending March 6th, the "Difference of Daily Average from the Mean for Week" on page 4 at Aberdeen should read +0·9, and at Cambridge +1·8.

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

METEOROLOGICAL OFFICE,
116, VICTORIA STREET, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, MARCH 20, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	65	35	54	40	47	7 above.	3	3	0 (average).	40	49
	2. ENGLAND, N.E.	66	31	56	40	48	7 above.	1	1	3 less.	46	55
	3. ENGLAND, E.	65	28	59	33	46	5 above.	1	less than ½	4 less.	55	66
	4. MID. COUNTIES	65	28	58	34	46	5 above.	1	1	4 less.	41	50
	5. ENGLAND, S.	66	29	58	36	47	4 above.	1	less than ½	4 less.	55	67
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	54	36	50	43	46	5 above.	4	6	2 less.	22	27
	7. ENGLAND, N.W.	60	32	52	41	47	5 above.	2	3	2 less.	34	41
	8. ENGLAND, S.W.	64	29	55	39	47	3 above.	2	less than ½	6 less.	45	55
	9. IRELAND, N.	60	33	54	41	47	5 above.	4	4	?	35	42
	10. IRELAND, S.	58	32	54	42	48	4 above.	3	4	3 less.	33	39

General Remarks.

Weather during the greater part of this period has been characterized by very fine warm days and cold clear nights. By the 20th, however, the sky had become cloudy and some showers had occurred at nearly all our stations.

Temperature has continued above the mean in all districts, the excess ranging from 3° or 4° in the southern and south-western parts of England and Ireland, to 7° in "England, N.E." and "Scotland, E." The maxima were very high for the season, a reading of 66° being registered at Scarborough on the 16th and in London on the 18th, while in many other places the thermometer reached 64° or 65°. The minima, which occurred generally on the 14th or 15th, ranged from 28° over eastern and central England, to 35° or 36° in Scotland.

Rainfall has been less than the mean in all districts.

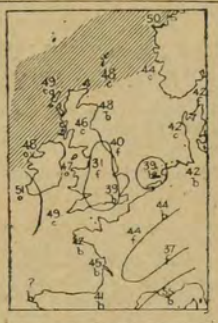
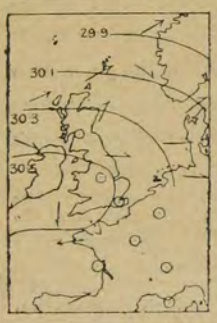
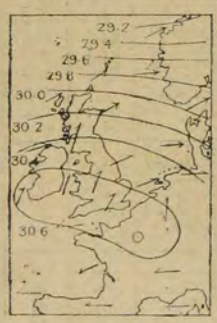
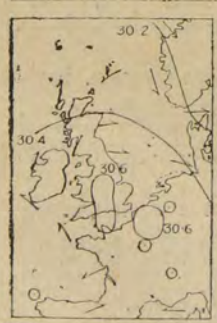
Bright sunshine has been much more general than for many weeks. The percentages varied from 27 in "Scotland, W." and 39 in "Ireland, S.", to 66 in "England, E." and 67 in "England, S."

Depressions observed.—During the greater part of this week an area of very uniform and high pressure has existed over England and France, while a few slight depressions passed from W. to E. to the northward of our Islands. Calms and variable airs were consequently experienced over England, and south-westerly breezes in Ireland and Scotland. At the end of the period, however, the distribution of pressure had changed; the barometer had fallen rather briskly, some small depressions were passing from W. to E. across England, and the south-westerly wind had spread to all parts of the Kingdom.

R 1335. 460.—3/82. Wt. 14790. E. & S.

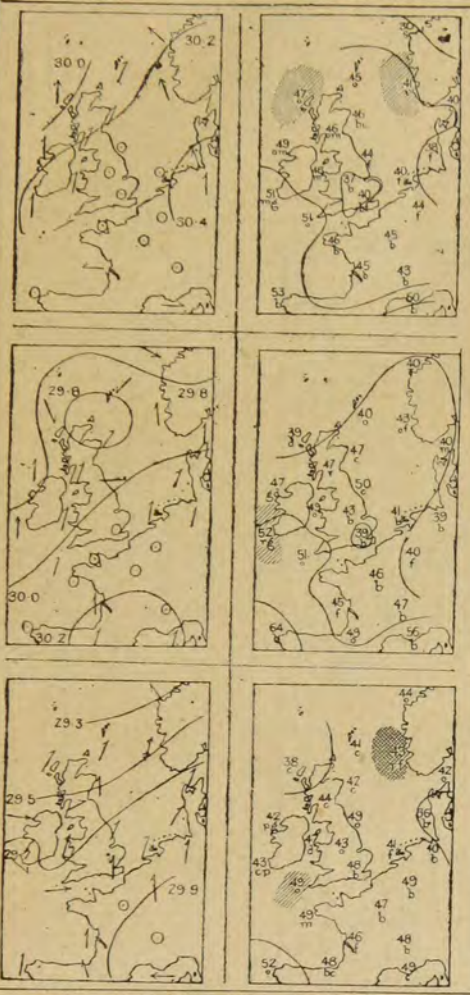
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending March 20, 1882.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.
		**Tuesday, March 14.** *Weather* cloudy at all our more western stations as well as over Scandinavia, but fine and bright elsewhere, though with a good deal of fog over central and eastern England. Little change later. *Temperature* fallen except in the W., and readings ranging from 51° at Valencia, to 31° over central England. Rising quickly during day, reaching 62° in London, and 60° at Cambridge. *Wind* easterly over France and the Channel, southerly and south-westerly on our western and northern coasts and in Norway and Sweden. Blowing strongly in the N., but lightly elsewhere. Slight gale springing up at Stornoway later. *Sea* rough in the N.W. and N. *Barometer* falling in nearly all places. Large area of high and uniform pressure shown over England and France, with depression near Bodö. Mercury falling all day, and little change in general distribution.
		**Wednesday, March 15.** *Weather* still dull in Scandinavia, fine and bright in nearly all other places. Misty at some stations. Becoming cloudy in the N. later, but remaining fine and bright elsewhere. *Temperature* fallen in the W. and N., and over Scandinavia, risen elsewhere; ranging from 49° at Scilly, to 39° at Nairn; rising fast later, and reaching 62° at Nottingham and 58° in London. *Wind* westerly and rather strong in all the more northern parts of our area, easterly in the southern and light and variable over our central districts. South-westerly gale again springing up at Stornoway later. *Sea* rough off the Norwegian coasts and round the Shetlands. *Barometer* rising everywhere. Large anticyclone still shown over Ireland, England, and France, with a depression over Lapland. Pressure giving away briskly in the N. later, and fresh disturbances appearing.
		**Thursday, March 16.** *Weather* cloudy or dull on our extreme W. and N. coasts as well as in Norway, very fine elsewhere. Very little change later; slight showers falling in extreme N. *Temperature* risen in most districts—particularly in the N., and ranging from 53° at Aberdeen and 50° at Scilly to 39° at Oxford. Rising all day, and reaching 65° in London and at Aberdeen. *Wind* westerly in the N. and over Scandinavia, and fresh to a gale in force; moderate or light from E. in the S. and over France. Westerly winds continuing and spreading. *Sea* rough round the Hebrides and Shetlands and off Norway. *Barometer* rising in the S., falling in the N. Anticyclone still holding its position over France and our southern districts, and depression shown in far N. Rising in the N. and falling in S. later.
		**Friday, March 17.** *Weather* dull at our extreme western and northern stations, and snow falling in N. Norway, but very fine weather prevailing elsewhere. Thick fog reported over central England. Fog clearing later, but little other change. *Temperature* fallen except in the S.W.; ranging from 52° at Scilly to 35° at Oxford. Brisk increase occurring during day, and thermometer reaching 65° in London and 61° at Oxford and Cambridge. *Wind* light from E. over France and the Channel, and from between S. and W. on our coasts, but strong north-westerly winds reported from Scandinavia. Moderate to strong southerly winds blowing in W. later. *Sea* rough at Stornoway, Skagen, and Christiansund. *Barometer* rising fast in Scandinavia, and slightly except over France and our S.W. coasts. Falling slowly, but pressure high and uniform over these Islands all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 18.

Weather fine over eastern and central parts of England and over France: dull and misty elsewhere. Dull with drizzling rain all day in the W. and N.; fine in the S.E. and E.

Temperature risen in W., fallen generally; ranging from 51° at Valencia to 33° at Oxford. Rising fast later and thermometer reaching 66° in London and 65° at York and Cambridge.

Wind easterly over France, light and variable on our S.E. coasts, and southerly in the W. and N.; blowing freshly at Stornoway. Moderate to fresh south-westerly and westerly winds prevailing everywhere later.

Sea rough at Stornoway and Skudesnaes.

Barometer falling generally — most in the N.W. Readings high and uniform over France and England, but shallow depressions existing to the north-westward of Scotland. Mercury falling steadily all day.

Sunday, March 19.

Weather fine but foggy over France, N. Germany, and the S. and E. of England, dull in the W. and N., with rain at several stations. Little change later, fine, bright weather continuing in the S.E. and dull, misty weather elsewhere.

Temperature risen except in the extreme N. and N.W.; ranging from 52° at Valencia to 39° in London and at Stornoway. Rising except at Stornoway and Valencia during day and maxima of 62° registered in London and of 61° at Cambridge.

Wind southerly and south-westerly in nearly all places, but northerly in the Shetlands and Hebrides, blowing strongly at Valencia, lightly or moderately elsewhere. Moderate south-westerly winds blowing all day.

Sea rough off the S.W. of Ireland, moderate to smooth elsewhere.

Barometer falling everywhere—quickly in Ireland. Pressure highest in S. France, with depressions off Ireland, over the N. of Scotland, and the N. of Norway. Decreasing briskly all day.

Monday, March 20.

Weather unsettled; fine in the S.E. and over France, cloudy elsewhere, with showers of rain in the N.W. Fair in most places during day, but showers of sleet and rain commencing in night.

Temperature risen on the Continent and over the S.E. of England, falling elsewhere; ranging from 49° at Scilly to 38° at Stornoway; maxima 65° in London and 64° at Cambridge.

Wind varying between N.W. and S.W., and moderate or fresh in force on all coasts. Backing to S.W. at Mullaghmore in the evening and increasing to a moderate gale, but little other change.

Sea rough at Scilly and Skudesnaes.

Barometer rising in Ireland, falling elsewhere. Pressure highest in the S.E. of France and lowest off the W. coast of Norway, but small depressions passing across these Islands. Rising in the W. during the day, but fresh fall appearing at Mullaghmore at 6 o'clock.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	52	38	47·6	40·0	43·8	+5·4	7	0·40	+0·07	*	*
	Stornoway	51	33	47·7	40·4	44·1	+4·1	7	1·02	+0·07	8	10
	Wick	55	35	51·6	41·9	46·8	+7·5	5	0·53	+0·21	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	43	54·9	46·3	50·6	+4·1	2	0·08	−0·39	*	*
	Jersey (Noirmont)	59	39	56·6	42·2	49·4	+4·9	1	0·01	−0·74	64	77

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	58	35	51·9	39·9	45·9	+ 5·9	3	0·48	+0·18	*	*
	Aberdeen	65	36	56·0	40·3	48·2	+ 8·6	2	0·23	−0·19	40	49
	Leith	60	37	53·9	40·4	47·2	+ 6·3	5	0·23	−0·05	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	34	52·1	40·7	46·4	+ 6·1	2	0·31	?	*	*
	Shields	63	38	55·7	42·1	48·9	+ 8·2	1	0·05	−0·29	*	*
	Durham	65	31	57·2	37·8	47·5	+ 7·4	1	0·05	−0·38	44	53
	Scarborough ℔	66	38	56·9	41·1	49·0	+ 8·5	1	0·05	−0·34	*	*
	York	65	34	58·1	37·4	47·8	+ 6·6	1	0·14	−0·24	47	57
	Spurn Head	60	39	54·3	40·9	47·6	+ 6·8	0	—	?	*	*
3. ENGLAND, E.	Hillington ℔	62	28	58·6	31·2	44·9	+ 4·0	1	0·04	−0·31	40	48
	Yarmouth	61	31	53·1	36·9	45·0	+ 3·6	0	—	−0·40	*	*
	Geldeston	64	29	61·1	34·3	47·7	+ 6·2	0	—	−0·40	66	80
	Cambridge	65	31	62·0	32·6	47·3	+ 5·3	1	0·02	−0·28	59	71
	Rothamsted	64	30	60·2	31·7	46·0	+ 4·9	1	0·04	−0·36	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)										*	*
	Nottingham	64	28	59·4	33·0	46·2	+ 4·6	1	0·06	−0·35	*	*
	Loughborough	65	30	59·3	34·2	46·8	+ 5·1	1	0·01	−0·39	*	*
	Leicester	64	30	58·0	33·3	45·7	+ 4·1	1	0·01	−0·37	29	35
	Birmingham (Oscott)	63	35	56·8	36·7	46·8	+ 5·7	0	—	−0·52	*	*
	Cheadle ℔	61	34	55·5	36·6	46·1	+ 5·7	1	0·13	?	*	*
	Churchstoke ℔	62	30	56·1	34·6	45·4	+ 4·2	1	0·12	?	43	52
	Hereford ℔	64	30	58·7	34·1	46·4	+ 4·2	1	0·08	−0·30	*	*
	Cirencester	64	28	58·5	31·6	45·1	+ 3·5	1	0·06	−0·39	44	53
	Oxford	64	30	59·7	34·1	46·9	+ 4·8	1	0·05	−0·34	45	58
5. ENGLAND, S.	London†	66	32	63·1	35·6	49·4	+ 6·9	0	—	−0·33	46	55
	Marlborough ℔	64	30	60·2	33·2	46·7	+ 5·1	1	0·01	−0·34	57	69
	Strathfield Turgiss ℔	65	29	61·9	32·1	47·0	+ 4·7	0	—	−0·35	*	*
	Dover	54	37	51·4	39·4	45·4	+ 2·3	0	—	−0·36	*	*
	Hastings (St. Leonard's)	59	41	54·7	42·1	48·4	+ 5·8	1	0·03	−0·42	*	*
	Southampton	64	33	60·8	35·6	48·2	+ 5·0	0	—	?	63	76
	Hurst Castle	56	34	53·7	35·6	44·7	+ 1·1	3	0·04	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	53	36	51·5	42·3	46·9	+ 6·1	5	1·72	?	*	*
	Glasgow	53	37	50·4	41·3	45·9	+ 5·2	7	0·42	−0·09	18	22
	Ardrossan	51	40	48·3	43·1	45·7	+ 4·3	4	0·22	−0·39	*	*
	Silloth (Cumberland)	53	39	50·4	43·8	47·1	+ 5·3	3	0·45	+0·04	22	27
	Douglas (Isle of Man)	54	40	50·5	42·7	46·6	+ 4·9	3	0·38	−0·22	26	31
7. ENGLAND, N.W.	Barrow-in-Furness	54	41	50·9	43·3	47·1	+ 5·0	2	0·19	?	*	*
	Stonyhurst	55	36	51·8	38·3	45·1	+ 4·3	2	0·23	−0·40	32	39
	Blackpool ℔	54	33	50·8	39·6	45·2	+ 2·9	2	0·26	−0·20	31	37
	Manchester	60	32	54·4	37·0	45·7	+ 4·5	1	0·18	−0·30	*	*
	Liverpool Obs' (Bidston)	57	38	54·0	42·9	48·5	+ 6·4	1	0·33	+0·01	*	*
	Llandudno ℔	56	38	54·0	42·5	48·3	+ 5·4	2	0·47	+0·06	38	46
	Holyhead	54	41	51·1	44·0	47·6	+ 4·4	2	0·23	−0·24	*	*
8. ENGLAND, S.W.	Pembroke	54	35	50·6	42·7	46·7	+ 2·8	4	0·06	−0·54	27	33
	Arlington (N. Devon)	64	31	55·4	36·3	45·9	+ 3·2	2	0·13	?	*	*
	Cullompton ℔	63	29	59·8	33·0	46·4	+ 3·2	0	—	?	48	58
	Falmouth	57	40	53·7	43·2	48·5	+ 3·6	2	0·03	−0·62	53	64
	Plymouth	58	33	56·0	36·8	46·4	+ 1·6	1	0·03	−0·61	52	63
	Prawle Point	57	39	55·0	42·6	48·8	+ 5·0	0	—	?	*	*
9. IRELAND, N.	Londonderry	58	35	55·3	39·8	47·6	+ 5·4	4	0·58	+0·02	*	*
	Mullaghmore	56	38	53·9	42·9	48·4	+ 5·7	4	0·74	?	*	*
	Markree Castle	58	33	?55·1	?38·6	?46·9	?+ 4·1	?	?	?	39	47
	Brookeborough	58	33	53·1	39·6	46·4	+ 4·2	3	0·35	?	*	*
	Armagh	57	38	53·1	41·9	47·5	+ 5·3	5	0·35	+0·06	30	36
	Donaghadee	60	38	53·3	41·4	47·4	+ 4·9	2	0·11	?	*	*
10. IRELAND, S.	Dublin	58	40	54·9	43·4	49·2	+ 5·9	2	0·32	−0·08	37	45
	Parsonstown	58	35	54·7	39·7	47·2	+ 4·1	3	0·39	−0·16	36	43
	Waterford	57	32	52·2	42·6	47·4	+ 3·7	4	0·24	−0·46	*	*
	Roche's Point	56	39	53·7	44·4	49·1	+ 4·5	2	0·35	−0·45	*	*
	Valencia	56	40	54·1	43·6	48·9	+ 5·6	4	0·45	−0·48	25	30
	Foynes	58	38	53·9	38·8	46·4	+ 2·9	3	0·62	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, MARCH 27, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	55	30	48	34	41	1 above.	4	3	1 less.	46	53
	2. ENGLAND, N.E.	54	29	48	35	42	1 above.	5	5	1 more.	31	36
	3. ENGLAND, E.	58	28	50	34	42	0 (average).	6	12	8 more.	29	34
	4. MID. COUNTIES	57	27	49	35	42	0 (average).	4	9	5 more.	28	33
	5. ENGLAND, S.	57	26	50	36	43	0 (average).	5	7	3 more.	34	39
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	54	29	47	36	42	0 (average).	7	12	3 more.	33	38
	7. ENGLAND, N.W.	55	29	48	37	43	0 (average).	5	12	7 more.	23	27
	8. ENGLAND, S.W.	56	29	50	39	45	1 above.	4	6	1 more.	34	40
	9. IRELAND, N.	55	29	49	37	43	0 (average).	7	10	6 more.	31	36
	10. IRELAND, S.	60	32	52	39	45	1 above.	6	7	1 more.	33	39

General Remarks.

Weather has been much less settled than of late; rain, hail, or snow has fallen in all places, and a thunderstorm was experienced in the S.E. during the evening of the 26th.

Temperature has fallen decidedly and has been lower than for some considerable time. It was, however, still equal to or slightly above the mean. The maxima, which occurred at most stations on the 24th or 25th, varied from 53° in "England, N.W." to 58° in "England, E." and 60° in "Ireland, S." The thermometer was lowest during the first three days of the period, when the minima ranged from 26° in "England, S." and 27° in the "Midland Counties", to 32° in "Ireland, S."

Rainfall has been more than the mean in all districts except "Scotland, E.", the excess in the N.W. and E. of England being rather large.

Bright sunshine, though it was still very general on some days, shows a decided decrease as compared with last week's amounts. The percentages varied from 53 in "Scotland, E." to 33 in the "Midland Counties," and 27 in "England, N.W."

Depressions observed.—Pressure has been highest over the south-western parts of our area while several depressions, some of which were deep, have travelled in an easterly direction across our Islands. The wind has consequently been westerly to north-north-westerly, and, though moderate on most days, increased at times to a fresh or strong gale. The gale experienced on the 26th (Sunday) was very general, and in some places exceptionally severe.

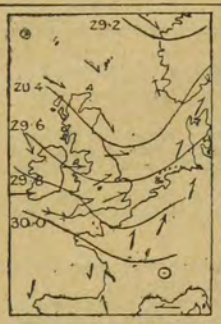
R 1435. 460.—3/82. Wt. 14790. E. & S.

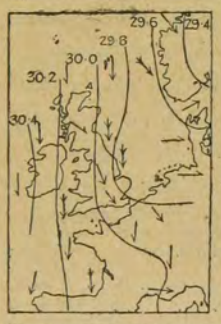
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending March 27, 1882.

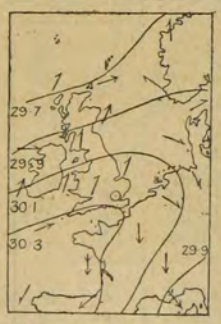
Synoptic Weather Charts.—8 a.m.

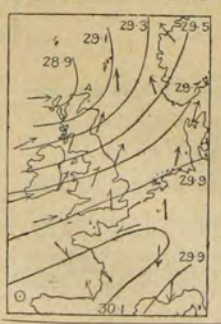
BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, March 21.

Weather fine at some south-western stations and in N. France, cloudy or dull elsewhere with snow or rain showers in several places. Snow falling at intervals during day, but weather at other times bright and fine.

Temperature fallen generally—most in N.E.—and readings ranging from 46° in the S. to 30° at Stornoway. Maxima between 34° and 50° and slight frost reported from central and northern stations at night.

Wind between N.W. and W. on our coasts, but drawing into S.W. and S. on the eastern shores of the North Sea. Blowing freshly or strongly on most coasts. Strong north-westerly winds all day and sharp gale setting in at night.

Sea rough in the W. and S.W., and at Skudesnaes.

Barometer falling over the greater part of England, as well as in N. Germany and Scandinavia, rising in the W. and N. Pressure highest over France, lowest off our N.E. coasts. Increasing all day.

Wednesday, March 22.

Weather fine in most districts, but slight snow showers falling in the E. and S.E. and over the Netherlands. Snow and hail showers occurring in the E. all day, with bright intervals.

Temperature fallen in the S.E. and over France, risen elsewhere; readings ranging from 46° at Valencia to 35° at Dover and 32° at Sumburgh Head. Maxima low, and slight frost occurring at central stations at night.

Wind northerly in nearly all places, blowing strongly or with the force of a gale on our own and the neighbouring coasts. Backing to W. and S.W. in the W. later and falling lighter.

Sea rough at most of our ports.

Barometer rising everywhere, the change in the N.W. amounting to about three quarters of an inch. Pressure highest off the W. of Ireland and lowest over Scandinavia. Fresh decrease appearing at Valencia later.

Thursday, March 23.

Weather fine over the S. of England and N. of France, cloudy or dull in most other places, with rain in Ireland and the Shetlands. Cloudy in most places during the day, with some rain.

Temperature risen fast in the N. and W., fallen elsewhere; readings ranging from 51° at Valencia to 33° at Oxford. Maxima between 46° and 56°, and night less cold.

Wind south-westerly and westerly on our coasts, but drawing into N. over France; moderate or fresh in force at our stations, but blowing a gale at Rochefort and Toulon. Little change later.

Sea rough at Valencia and Sumburgh Head and high at Rochefort, Corunna, and Toulon.

Barometer fallen in the S.E. of France and in our western and northern districts, risen elsewhere. Area of high pressure shown in the S.W., with depressions near Toulon and the Shetlands. Giving way all day.

Friday, March 24.

Weather generally unsettled; fine in Sweden and the N. of Norway, dull elsewhere, with a good deal of rain or mist. Cloudy and unsettled all day, but clearing in the N. later.

Temperature risen everywhere—quickly in the E.; readings ranging from 53° in the S.W. to 44° in the N. Falling briskly in the N. later, and maxima varying between 45° and 58°.

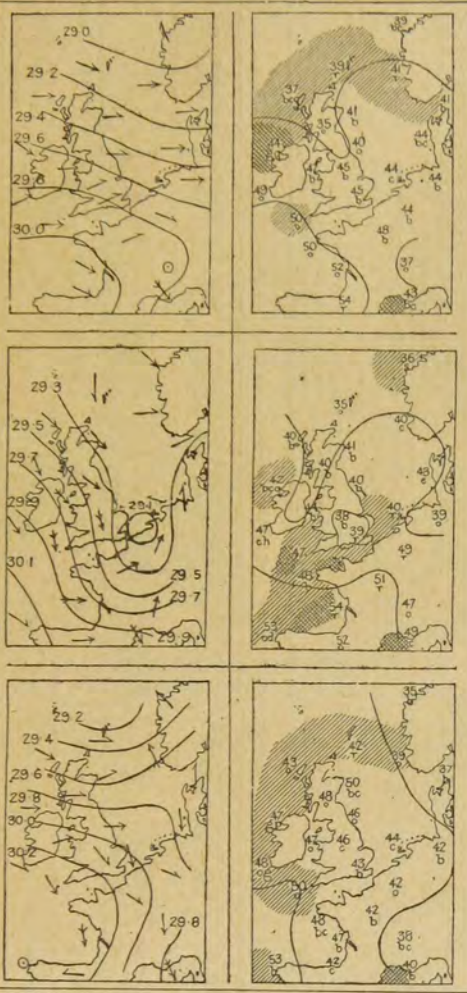
Wind between W. and S. over these Islands, and between S. and S.E. on the eastern shores of the North Sea. Blowing strongly in the W. and N. Veering to W. and N.W. in the afternoon, but still blowing strongly.

Sea rough in the S.W., W., and N., and at Toulon.

Barometer falling quickly everywhere; large depression shown off the N.W. of Scotland. Disturbance passing north-eastward and pressure increasing in the W. and N.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 25.

Weather fine over England, the N.E. of France, and Denmark, cloudy elsewhere; cloudy and rather unsettled in afternoon, and heavy rain falling in evening and night.

Temperature fallen except in France; readings ranging from 50° at Scilly to 35° at Nairn, and maxima during the day varying between 44° and 56°.

Wind westerly in nearly all places; blowing freshly or strongly in the W. and N.W., but moderately generally. Backing to S.W. at Valencia in the evening, and increasing to a gale at Scilly.

Sea rough in the N.W. and N., and high at Toulon.

Barometer rising in nearly all parts of these Islands, but falling at Valencia and on the Continent generally. Pressure highest over Spain and lowest over Norway. Brisk decrease occurring in Ireland later, and small depression appearing there.

Sunday, March 26.

Weather clearing and becoming fine and bright over most of the western and northern districts, but rainy and squally in the S.E. and over France. Fine most of the day, but squally.

Temperature fallen except in N. Scotland; ranging from 47° in the S.W. to 36° at Nairn. Rising during the day and maxima varying between 44° and 53°.

Wind north-westerly and northerly over these Islands, north-westerly and westerly over France, and southerly over N. Germany and Denmark. Blowing a gale in the S. and W. Strong north-westerly winds all day with severe squalls in the S.E.

Sea rough in the S.W., S., and S.E., and at Christiansund.

Barometer falling fast in the S.E. and well marked depression shown over the Netherlands, but rising briskly in the W. and N. Rapid increase of pressure in progress all day.

Monday, March 27.

Weather fine in the E. and S. and over France, cloudy and showery in the W. and N.W. Fine in the E. and N.E. during the day, but dull with slight showers elsewhere.

Temperature risen generally, most in the N., and readings ranging from 50° at Aberdeen and Scilly, to 42° at Yarmouth, and 40° at Toulon. Maxima between 45° and 55°.

Wind between N.W. and S.W. on our coasts, but drawing into N. over France and N. Germany. Moderate or fresh in force generally, but blowing strongly in the N. and N.W. North-westerly gale springing up in Caithness in afternoon, and wind backing to S.W. at Valencia in evening.

Sea rough in the S.W., W., and N., and high at Toulon.

Barometer rising quickly except in N. Scotland and S.E. France. Large area of high pressure shown in the S.W., with depressions near the Shetlands and Toulon. Slight fall commencing in S.W. later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	48	38	45·9	33·0	38·5	0·0	7	1·45	+1·10	*	*
	Stornoway	48	28	45·0	33·9	39·5	−0·6	7	2·02	+1·12	40	47
	Wick	54	30	46·1	33·0	38·6	−0·8	6	0·40	+0·09	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	39	50·7	43·7	47·2	+0·7	6	0·27	−0·20	*	*
	Jersey (Noirmont)	52	35	49·9	41·6	45·8	+1·1	5	0·67	−0·05	45	52

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	51	30	45·3	34·3	39·8	− 0·4	5	0·60	+0·30	*	*
	Aberdeen	55	30	49·3	33·3	41·3	+ 1·5	5	0·20	−0·11	46	53
	Leith	55	31	50·3	34·3	42·3	+ 1·2	3	0·21	−0·04	*	*
2. ENGLAND, N.E.	Alnwick Castle	52	32	47·1	36·9	42·0	+ 1·5	5	0·16	?	*	*
	Shields	54	30	48·4	34·3	41·4	+ 0·4	3	0·13	−0·20	*	*
	Durham	54	29	48·6	32·9	40·8	+ 0·5	5	0·46	+0·06	31	36
	Scarborough ℳ	51	32	47·1	35·9	41·5	+ 0·8	5	0·81	+0·45	?	?
	York	54	29	49·4	33·6	41·5	+ 0·1	5	0·57	+0·22		
	Spurn Head	52	34	47·3	37·3	42·3	+ 1·3	5	0·69	?	*	*
3. ENGLAND, E.	Hillington ℳ	54	29	49·2	35·0	42·1	+ 1·0	6	1·51	+1·16	25	29
	Yarmouth	53	30	47·7	35·0	41·4	− 0·2	6	1·12	+0·71	*	*
	Geldeston	55	28	49·7	34·7	42·2	+ 0·5	6	1·29	+0·92	33	38
	Cambridge	58	28	51·6	33·0	42·3	+ 0·1	6	1·01	+0·71	?	?
	Rothamsted	55	28	50·2	34·4	42·3	+ 1·0	6	0·93	+0·54	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	29	51·7	34·9	43·3	+ 1·5	4	0·79	+0·44	*	*
	Nottingham	55	27	51·4	33·1	42·3	+ 0·5	4	0·88	+0·46	*	*
	Loughborough	54	27	49·3	35·1	42·2	+ 0·3	3	0·81	+0·41	*	*
	Leicester	53	27	49·6	36·1	42·9	+ 1·1	4	0·99	+0·64	22	26
	Birmingham (Oscott)	54	28	48·7	33·9	41·3	0·0	3	1·14	+0·64	*	*
	Cheadle ℳ	52	28	46·4	33·6	40·0	− 0·6	5	1·18	?	*	*
	Churchstoke ℳ	55	28	48·1	34·0	41·1	− 0·3	5	1·06	?	25	29
	Hereford ℳ	57	29	50·3	34·8	42·6	+ 0·2	3	0·55	+0·19	*	*
	Cirencester	52	28	48·9	34·6	41·8	0·0	5	0·57	+0·13	33	38
	Oxford	55	29	50·0	34·9	42·5	+ 0·2	3	0·64	+0·28	33	38
5. ENGLAND, S.	London†	56	28	51·0	34·7	42·9	+ 0·2	6	0·78	+0·44	27	31
	Marlborough ℳ	54	26	50·0	33·4	41·7	− 0·1	4	0·64	+0·19	38	44
	Strathfield Turgiss ℳ	56	28	51·9	34·5	43·2	+ 0·7	4	0·55	+0·20	*	*
	Dover	53	32	48·6	37·1	42·9	− 0·4	5	1·37	+0·92	*	*
	Hastings (St. Leonard's)	52	30	49·0	35·7	42·4	− 0·4	6	0·78	+0·34	*	*
	Southampton	57	30	52·0	37·0	44·5	+ 1·1	5	0·28	?	36	42
	Hurst Castle	53	31	50·1	37·3	43·7	− 0·1	4	0·36	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	51	29	45·8	36·1	41·0	0·0	7	2·65	?	*	*
	Glasgow	50	30	46·1	35·3	40·7	− 0·2	7	0·65	+0·15	33	38
	Ardrossan	50	31	47·1	36·3	41·7	+ 0·1	7	0·49	−0·01	*	*
	Silloth (Cumberland)	54	32	48·1	36·7	42·4	+ 0·4	7	0·87	+0·48	34	40
	Douglas (Isle of Man)	52	32	47·6	37·4	42·5	+ 0·6	7	1·20	+0·62	32	37
7. ENGLAND, N.W.	Barrow-in-Furness	52	33	48·0	38·7	43·4	+ 1·1	5	0·93	?	*	*
	Stonyhurst	50	30	45·8	34·5	40·2	− 0·8	6	2·35	+1·67	26	30
	Blackpool ℳ	55	32	47·6	37·8	42·7	+ 0·2	6	0·84	+0·43	*	*
	Manchester	52	29	46·2	34·5	40·4	− 1·0	4	1·30	+0·81	*	*
	Liverpool Obsʳ (Bidston)	53	34	48·1	38·0	43·1	+ 0·8	4	0·97	+0·66	*	*
	Llandudno ℳ	54	34	51·0	38·7	44·9	+ 1·8	6	0·90	+0·50	20	23
	Holyhead	52	33	48·4	40·1	44·3	+ 0·9	6	1·00	+0·53	*	*
8. ENGLAND, S.W.	Pembroke	51	35	48·3	40·7	44·5	+ 0·4	4	0·55	−0·03	29	34
	Arlington (N. Devon)	50	30	48·1	36·1	42·1	− 0·8	4	1·32	?	*	*
	Cullompton ℳ	55	29	51·3	37·2	44·3	+ 0·9	4	0·34	?	35	41
	Falmouth	54	39	50·7	42·7	46·7	+ 1·6	4	0·58	−0·02	35	41
	Plymouth	56	34	52·8	39·0	45·9	+ 0·9	4	0·35	−0·25	36	42
	Prawle Point	55	32	51·3	38·1	44·7	+ 0·7	4	0·68	?	*	*
9. IRELAND, N.	Londonderry	54	29	50·3	35·9	43·1	+ 0·7	7	1·37	+0·91	*	*
	Mullaghmore	52	33	49·0	39·3	44·2	+ 1·3	7	0·90	?	*	*
	Markree Castle	53	31	48·9	37·2	43·1	+ 0·1	7	1·12	+0·54	30	35
	Brookeborough	52	31	47·8	36·9	42·4	0·0	7	1·17	?	*	*
	Armagh	53	31	48·1	36·8	42·5	+ 0·1	7	0·96	+0·56	32	37
	Donaghadee	55	32	49·1	36·6	42·9	+ 0·2	7	0·66	?	*	*
10. IRELAND, S.	Dublin	56	32	50·9	37·6	44·3	+ 0·6	6	0·86	+0·38	40	47
	Parsonstown	54	32	50·0	36·6	43·3	0·0	5	0·84	+0·40	34	40
	Waterford	60	33	51·5	38·6	45·1	+ 1·2	7	0·35	−0·34	*	*
	Roche's Point	58	36	52·7	40·0	46·4	+ 1·7	3	0·45	−0·31	*	*
	Valencia	55	36	52·7	42·0	47·4	+ 2·0	6	0·89	−0·11	26	30
	Foynes	55	34	51·6	36·4	44·0	+ 0·4	7	0·98	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, APRIL 3, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E. -	59	30	49	38	44	3 above.	6	5	2 more.	8	8
	2. ENGLAND, N.E.	59	35	50	40	45	4 above.	4	2	2 less.	20	21
	3. ENGLAND, E. -	61	29	55	40	47	6 above.	1	less than ½	3 less.	39	41
	4. MID. COUNTIES	60	30	54	40	47	5 above.	3	3	2 less.	25	26
	5. ENGLAND, S. -	64	31	55	43	49	6 above.	2	2	3 less.	36	38
Principal Grazing, &c. Districts.	6. SCOTLAND, W. -	53	33	49	40	45	3 above.	5	5	2 less.	22	23
	7. ENGLAND, N.W.	56	35	51	41	46	4 above.	5	4	0 (average).	16	17
	8. ENGLAND, S.W.	57	30	52	42	47	3 above.	6	10	5 more.	21	22
	9. IRELAND, N. -	60	30	51	41	46	3 above.	6	4	1 less.	31	32
	10. IRELAND, S. -	59	32	53	41	47	3 above.	6	11	4 more.	28	30

General Remarks.

Weather has been cloudy or dull in all places with rather frequent, but slight, falls of rain. A thunderstorm occurred at Dover on March 31st, while another passed over central England on the 2nd.

Temperature has been much higher than that of last week and was above the mean in all districts, the excess over southern and eastern England being as much as 6°. The highest reading recorded (64°) was registered at Southampton on April 3rd, while the lowest reading (29°) occurred at Hillington on March 31st.

Rainfall has been rather more than the mean in "Scotland, E.", "England, S.W.", and "Ireland, S.", and equal to it in "England, N.W.", but in all other districts the fall was a little less than the mean value.

Bright sunshine shows a further decrease, the percentages varying from 8 in "Scotland, E." and 17 in "England, N.W.", to 38 in "England, S.", and 41 in "England, E."

Depressions observed.—During the first few days the barometer was highest over the southern part of our area, and depressions travelled in an easterly direction over our northern coasts and Scandinavia. The prevailing current was consequently south-westerly or westerly, and generally moderate or fresh in force. On March 31st, however, there were indications of a change in the distribution of pressure, and from April 1st until the close of the period the mercury was highest over Scandinavia and lowest to the south-westward of our Islands, so that the wind became easterly and south-easterly in direction and moderate to strong in force.

R 1544. 460.—4/82. Wt. 233. E. & S

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	51	30	45·3	34·3	39·8	− 0·4	5	0·60	+0·30	*	*
	Aberdeen	55	30	49·3	33·3	41·3	+ 1·5	5	0·20	−0·11	46	53
	Leith	55	31	50·3	34·3	42·3	+ 1·2	3	0·21	−0·04	*	*
2. ENGLAND, N.E.	Alnwick Castle	52	32	47·1	36·9	42·0	+ 1·5	5	0·16	?	*	*
	Shields	54	30	48·4	34·3	41·4	+ 0·4	3	0·13	−0·20	*	*
	Durham	54	29	48·6	32·9	40·8	+ 0·5	5	0·46	+0·06	31	36
	Scarborough ℳ	51	32	47·1	35·9	41·5	+ 0·8	5	0·81	+0·45	?	?
	York	54	29	49·4	33·6	41·5	+ 0·1	5	0·57	+0·22		
	Spurn Head	52	34	47·3	37·3	42·3	+ 1·3	5	0·69	?	*	*
3. ENGLAND, E.	Hillington ℳ	54	29	49·2	35·0	42·1	+ 1·0	6	1·51	+1·16	25	29
	Yarmouth	53	30	47·7	35·0	41·4	− 0·2	6	1·12	+0·71	*	*
	Geldeston	55	28	49·7	34·7	42·2	+ 0·5	6	1·29	+0·92	33	38
	Cambridge	58	28	51·6	33·0	42·3	+ 0·1	6	1·01	+0·71	?	?
	Rothamsted	55	28	50·2	34·4	42·3	+ 1·0	6	0·93	+0·54	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	29	51·7	34·9	43·3	+ 1·5	4	0·79	+0·44	*	*
	Nottingham	55	27	51·4	33·1	42·3	+ 0·5	4	0·88	+0·46	*	*
	Loughborough	54	27	49·3	35·1	42·2	+ 0·3	3	0·81	+0·41	*	*
	Leicester	53	27	49·6	36·1	42·9	+ 1·1	4	0·99	+0·64	22	26
	Birmingham (Oscott)	54	28	48·7	33·9	41·3	0·0	3	1·14	+0·64	*	*
	Cheadle ℳ	52	28	46·4	33·6	40·0	− 0·6	5	1·18	?	*	*
	Churchstoke ℳ	55	28	48·1	34·0	41·1	− 0·3	5	1·06	?	25	29
	Hereford ℳ	57	29	50·3	34·8	42·6	+ 0·2	3	0·55	+0·19	*	*
	Cirencester	52	28	48·9	34·6	41·8	0·0	5	0·57	+0·13	33	38
	Oxford	55	29	50·0	34·9	42·5	+ 0·2	3	0·64	+0·28	33	38
5. ENGLAND, S.	London†	56	28	51·0	34·7	42·9	+ 0·2	6	0·78	+0·44	27	31
	Marlborough ℳ	54	26	50·0	33·4	41·7	− 0·1	4	0·64	+0·19	38	44
	Strathfield Turgiss ℳ	56	28	51·9	34·5	43·2	+ 0·7	4	0·55	+0·20	*	*
	Dover	53	32	48·6	37·1	42·9	− 0·4	5	1·37	+0·92	*	*
	Hastings (St. Leonard's)	52	30	49·0	35·7	42·4	− 0·4	6	0·78	+0·34	*	*
	Southampton	57	30	52·0	37·0	44·5	+ 1·1	5	0·28	?	36	42
	Hurst Castle	53	31	50·1	37·3	43·7	− 0·1	4	0·36	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	51	29	45·8	36·1	41·0	0·0	7	2·65	?	*	*
	Glasgow	50	30	46·1	35·3	40·7	− 0·2	7	0·65	+0·15	33	38
	Ardrossan	50	31	47·1	36·3	41·7	+ 0·1	7	0·49	−0·01	*	*
	Silloth (Cumberland)	54	32	48·1	36·7	42·4	+ 0·4	7	0·87	+0·48	34	40
	Douglas (Isle of Man)	52	32	47·6	37·4	42·5	+ 0·6	7	1·20	+0·62	32	37
7. ENGLAND, N.W.	Barrow-in-Furness	52	33	48·0	38·7	43·4	+ 1·1	5	0·93	?	*	*
	Stonyhurst	50	30	45·8	34·5	40·2	− 0·8	6	2·35	+1·67	26	30
	Blackpool ℳ	55	32	47·6	37·8	42·7	+ 0·2	6	0·84	+0·43	*	*
	Manchester	52	29	46·2	34·5	40·4	− 1·0	4	1·30	+0·81	*	*
	Liverpool Obsʳ (Bidston)	53	34	48·1	38·0	43·1	+ 0·8	4	0·97	+0·66	*	*
	Llandudno ℳ	54	34	51·0	38·7	44·9	+ 1·8	6	0·90	+0·50	20	23
	Holyhead	52	33	48·4	40·1	44·3	+ 0·9	6	1·00	+0·53	*	*
8. ENGLAND, S.W.	Pembroke	51	35	48·3	40·7	44·5	+ 0·4	4	0·55	−0·03	29	34
	Arlington (N. Devon)	50	30	48·1	36·1	42·1	− 0·8	4	1·32	?	*	*
	Cullompton ℳ	55	29	51·3	37·2	44·3	+ 0·9	4	0·34	?	35	41
	Falmouth	54	39	50·7	42·7	46·7	+ 1·6	4	0·58	−0·02	35	41
	Plymouth	56	34	52·8	39·0	45·9	+ 0·9	4	0·35	−0·25	36	42
	Prawle Point	55	32	51·3	38·1	44·7	+ 0·7	4	0·68	?	*	*
9. IRELAND, N.	Londonderry	54	29	50·3	35·9	43·1	+ 0·7	7	1·37	+0·91	*	*
	Mullaghmore	52	33	49·0	39·3	44·2	+ 1·3	7	0·90	?	*	*
	Markree Castle	53	31	48·9	37·2	43·1	+ 0·1	7	1·12	+0·54	30	35
	Brookeborough	52	31	47·8	36·9	42·4	0·0	7	1·17	?	*	*
	Armagh	53	31	48·1	36·8	42·5	+ 0·1	7	0·96	+0·56	32	37
	Donaghadee	55	32	49·1	36·6	42·9	+ 0·2	7	0·66	?	*	*
10. IRELAND, S.	Dublin	56	32	50·9	37·6	44·3	+ 0·6	6	0·86	+0·38	40	47
	Parsonstown	54	32	50·0	36·6	43·3	0·0	5	0·84	+0·40	34	40
	Waterford	60	33	51·5	38·6	45·1	+ 1·2	7	0·35	−0·34	*	*
	Roche's Point	58	36	52·7	40·0	46·4	+ 1·7	3	0·45	−0·31	*	*
	Valencia	55	36	52·7	42·0	47·4	+ 2·0	6	0·80	−0·11	26	30
	Foynes	55	34	51·6	36·4	44·0	+ 0·4	7	0·98	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, APRIL 3, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham. Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	30	49	38	44	3 above.	6	5	2 more.	8	8
	2. ENGLAND, N.E.	59	35	50	40	45	4 above.	4	2	2 less.	20	21
	3. ENGLAND, E.	61	29	55	40	47	6 above.	1	less than ½	3 less.	39	41
	4. MID. COUNTIES	60	30	54	40	47	5 above.	3	3	2 less.	25	26
	5. ENGLAND, S.	64	31	55	43	49	6 above.	2	2	3 less.	36	38
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	53	33	49	40	45	3 above.	5	5	2 less.	22	23
	7. ENGLAND, N.W.	56	35	51	41	46	4 above.	5	4	0 (average).	16	17
	8. ENGLAND, S.W.	57	30	52	42	47	3 above.	6	10	5 more.	21	22
	9. IRELAND, N.	60	30	51	41	46	3 above.	6	4	1 less.	31	32
	10. IRELAND, S.	59	32	53	41	47	3 above.	6	11	4 more.	28	30

General Remarks.

Weather has been cloudy or dull in all places with rather frequent, but slight, falls of rain. A thunderstorm occurred at Dover on March 31st, while another passed over central England on the 2nd.

Temperature has been much higher than that of last week and was above the mean in all districts, the excess over southern and eastern England being as much as 6°. The highest reading recorded (64°) was registered at Southampton on April 3rd, while the lowest reading (29°) occurred at Hillington on March 31st.

Rainfall has been rather more than the mean in "Scotland, E.", "England, S.W.", and "Ireland, S.", and equal to it in "England, N.W.", but in all other districts the fall was a little less than the mean value.

Bright sunshine shows a further decrease, the percentages varying from 8 in "Scotland, E." and 17 in "England, N.W.", to 38 in "England, S.", and 41 in "England, E."

Depressions observed.—During the first few days the barometer was highest over the southern part of our area, and depressions travelled in an easterly direction over our northern coasts and Scandinavia. The prevailing current was consequently south-westerly or westerly, and generally moderate or fresh in force. On March 31st, however, there were indications of a change in the distribution of pressure, and from April 1st until the close of the period the mercury was highest over Scandinavia and lowest to the south-westward of our Islands, so that the wind became easterly and south-easterly in direction and moderate to strong in force.

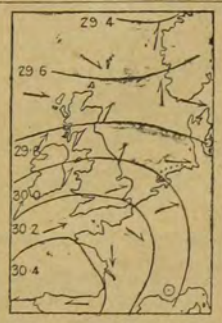
R 1544. 460.—4/82. Wt. 233. E. & S

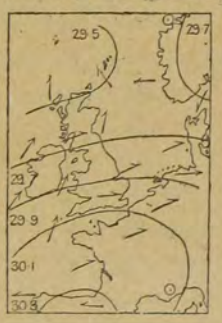
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending April 3, 1882.

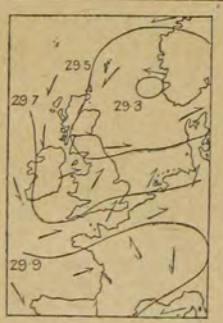
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, March 28.

Weather fine on the extreme S.E. coast of England, but dull elsewhere, with some rain in the W. and N. Little change later, fine weather continuing in the S.E., and cloudy skies and rain in our other districts.

Temperature risen at almost all stations, and ranging from 51° at Valencia to 41° at Sumburgh Head. Rising briskly in S.E. later, and maxima varying between 50° and 60°, except in the extreme N.

Wind south-westerly and westerly over these Islands and the North Sea, but southerly in Scandinavia, and northerly in France. Blowing strongly in W. Ireland. Westerly winds holding all day.

Sea rough off Norway, the W. of Ireland, Corunna, and Toulon.

Barometer falling in the W. and N., rising elsewhere. Anticyclone lying over the Bay of Biscay, and large depression off the Norwegian coast. Fresh depression appearing over N. Scotland later, and mercury falling all day.

Wednesday, March 29.

Weather cloudy or dull at nearly all stations; rain falling in the N., and mist reported from several places. Cloudy most of the day, but clearing in the N.E. and W. in evening.

Temperature fallen in Ireland, Scotland, and Scandinavia, risen elsewhere; readings ranging from 53° at Nottingham, to 42° at Sumburgh Head. Thermometer rising to 59° at Cambridge and Yarmouth later.

Wind south-westerly in nearly all places, but drawing into S. in Scotland, and into S.E. in Norway. Blowing strongly in the W., moderately elsewhere. Shifting to N. in Scotland in the evening, but remaining westerly elsewhere.

Sea rough at Scilly, off W. Ireland, and at Christiansund.

Barometer rising over Norway and Sweden, falling in nearly all other places. Area of high pressure still shown over the Bay of Biscay, and depression near Scotland. Barometer falling all day, and Scotch depression passing across us.

Thursday, March 30.

Weather very fine over England, the E. of Scotland, and S. of Norway, cloudy or dull generally. Rain falling in W. Scotland. Some hail showers at Stornoway, but fine on the whole during day.

Temperature fallen briskly generally; readings ranging from 48° in the S. to 39° at Nairn. Maxima below 45° in the N. but between 50° and 58° generally.

Wind north-westerly and northerly over Scotland and Ireland, westerly over England and the North Sea, and easterly in Norway. Moderate to fresh in force. Northerly wind spreading to all but over south-eastern stations later.

Sea rough round the Scilly and Shetland Isles and at Corunna.

Barometer rising in Scotland, falling elsewhere. Pressure still relatively high over France and the Bay of Biscay with depressions over the Bristol Channel, the S. of Scotland, and the North Sea. Barometer rising in the N. and falling in the S. all day.

Friday, March 31.

Weather fine over central and southern England and the W. of France, cloudy or dull elsewhere, with rain at Leith and Valencia and snow at Wick. Cloudy in the W. and N. all day, but fine in the S.E. except for a thunderstorm at Dover.

Temperature fallen in most places; readings ranging from 48° at Scilly to 38° at Parsonstown and 36° at Wick. Maxima 57° at Cambridge and Nottingham, but only 42° at Nairn.

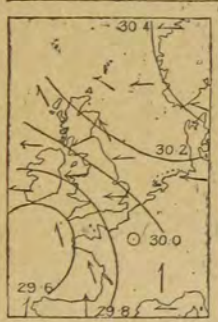
Wind westerly over France and the Channel, south-easterly and easterly over Ireland and Scotland, and variable over England. Blowing freshly at Scilly but moderate or light in force generally. Very little change later.

Sea rough round the Scilly and Shetland Isles and at Corunna.

Barometer rising over Norway, Sweden, and France, falling elsewhere. Pressure high over the Gulf of Bothnia and the S. of France, and low over Ireland and England. Rising during the day except in the S.W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 1.

Weather fine over the E. of Ireland, Wales, and the eastern and central parts of England, but cloudy or dull elsewhere with rain and hail in the S.W. Fine all day in the S.E., cloudy and unsettled elsewhere.

Temperature risen generally; ranging from 52° in London to 37° at Nairn. Slight rise during day, and maxima varying between 46° and 60°.

Wind southerly over France and the Channel, easterly over the North Sea and on our coasts. Little change later, moderate to fresh easterly winds holding on our coasts.

Sea rough at Scilly, Mullaghmore, and Oxö.

Barometer falling in W. France, but rising in all other places. Readings highest (30·2 ins.) over Sweden, lowest (29·5 ins.) off our S.W. coasts. Mercury rising slowly all day.

Sunday, April 2.

Weather fine over the E. and N. of France, at Dover and over Scandinavia, cloudy or dull elsewhere, with showers in some places. Little change later, rain falling in the S.W.

Temperature risen slightly in most districts, and readings ranging from 52° in London to 42° in the Shetlands. Changing little later, and maxima varying between 44° on our N.E. coasts and 60° in the S.E.

Wind southerly and south-easterly over France and the Channel and easterly over these Islands; blowing freshly in most places. Slight gales experienced in Ireland later, but little other change.

Sea rather rough except in the S.

Barometer falling very slightly at Valencia, rising in all other places. Large anticyclone shown over Scandinavia, with large depression off our S.W. coasts. Falling slowly in W. all day.

Monday, April 3.

Weather very fine over the countries to the eastward of the North Sea and the E. of France, cloudy or dull elsewhere with showers in the S.W. Fine over England and Scotland during day, cloudy and showery in W.

Temperature risen slightly on the Continent, fallen a little over these Islands. Ranging from 51° at Scilly to 41° in the N.E. Maxima varying between 45° and 61°.

Wind southerly over France, easterly to south-easterly on our coasts; blowing strongly at several stations. Veering more towards S. later, still blowing strongly.

Sea rough except in the S. and S.E.

Barometer rising over Scandinavia, the Netherlands, and our S.E. coasts, falling elsewhere. Pressure still highest over Sweden and lowest off our S.W. coasts. Mercury falling in W. and N.W. later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	48	35	46·0	37·0	41·5	+2·9	5	0·29	−0·11	*	*
	Stornoway	51	33	47·6	37·9	42·8	+2·6	4	0·65	−0·16	37	38
	Wick	49	35	46·9	36·9	41·9	+2·4	6	0·54	+0·28	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	42	53·1	44·7	49·9	+3·2	6	1·01	+0·55	*	*
	Jersey (Noirmont)	55	40	52·9	44·3	48·6	+3·8	6	0·74	+0·06	35	37

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	52	30	47·3	37·3	42·3	+ 2·0	5	0·74	+0·44	*	*
	Aberdeen	59	33	49·4	38·3	43·9	+ 3·9	7	0·47	+0·02	8	8
	Leith	58	34	51·3	39·4	45·4	+ 4·2	5	0·29	+0·01	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	37	47·4	39·7	43·6	+ 3·0	6	0·43	?	*	*
	Shields	55	37	48·0	40·0	44·0	+ 3·0	2	0·02	−0·35	*	*
	Durham	59	35	49·9	38·5	44·2	+ 3·8	5	0·36	−0·05	17	18
	Scarborough ℳ	54	37	48·4	40·8	44·6	+ 3·8	3	0·15	−0·21	*	*
	York	58	36	53·0	40·6	46·8	+ 5·2	5	0·31	−0·06	22	23
	Spurn Head	56	39	49·3	42·4	45·9	+ 4·8	1	0·05	?	*	*
3. ENGLAND, E.	Hillington ℳ	59	29	54·7	38·3	46·5	+ 5·2	1	0·03	−0·32	33	35
	Yarmouth	59	39	52·1	41·3	46·7	+ 4·9	0	—	−0·40	*	*
	Geldeston	59	37	54·4	41·5	48·0	+ 6·1	0	—	−0·35	41	43
	Cambridge	61	34	58·6	38·4	48·5	+ 6·1	2	0·08	−0·22	42	44
	Rothamsted	57	33	54·6	39·0	46·8	+ 5·3	3	0·09	−0·30	*	*
4. MIDLAND COUNTIES	Rawtry (Hesley Hall)	59	34	53·7	40·7	47·2	+ 5·2	3	0·13	−0·22	*	*
	Nottingham	60	30	56·0	39·3	47·7	+ 5·7	5	0·20	−0·25	*	*
	Loughborough	59	32	54·2	41·0	47·6	+ 5·5	2	0·16	−0·24	*	*
	Leicester	60	32	54·9	40·4	47·7	+ 5·7	2	0·03	−0·38	21	22
	Birmingham (Oscott)	58	32	54·2	39·5	46·9	+ 5·4	1	0·22	−0·26	*	*
	Cheadle ℳ	56	33	51·4	38·7	45·1	+ 4·3	4	0·34	?	*	*
	Churchstoke ℳ	57	31	52·9	39·2	46·1	+ 4·5	4	0·35	?	21	22
	Hereford ℳ	58	32	55·2	39·7	47·5	+ 4·9	3	0·19	−0·16	*	*
	Cirencester	57	31	?54·0	?40·1	?47·1	?+ 5·1	? 5	0·66	+0·20	23	24
	Oxford	60	34	55·9	41·6	48·8	+ 6·3	3	0·19	−0·16	34	36
5. ENGLAND, S.	London†	59	39	57·0	42·9	50·0	+ 7·1	0	—	−0·35	28	29
	Marlborough ℳ	58	31	54·6	40·5	47·6	+ 5·6	4	0·62	+0·17	35	37
	Strathfield Turgiss ℳ	62	34	58·1	40·5	49·3	+ 6·6	1	0·05	−0·32	*	*
	Dover	54	41	52·1	44·1	48·1	+ 4·6	3	0·16	−0·30	*	*
	Hastings (St. Leonard's)	62	39	54·1	43·7	48·9	+ 5·9	2	0·10	−0·35	*	*
	Southampton	64	36	57·4	43·3	50·4	+ 6·8	3	0·08	?	45	47
	Hurst Castle	58	35	53·6	43·7	48·7	+ 4·7	2	0·05	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	53	33	48·8	39·4	44·1	+ 3·0	3	1·06	?	*	*
	Glasgow	53	34	48·1	39·4	43·8	+ 2·8	6	0·61	+0·11	12	12
	Ardrossan	51	33	48·9	39·7	44·3	+ 2·6	3	0·19	−0·31	*	*
	Silloth (Cumberland)	53	33	49·7	40·0	44·9	+ 2·8	4	0·29	−0·09	23	24
	Douglas (Isle of Man)	53	37	49·8	41·9	45·9	+ 3·9	5	0·11	−0·32	31	32
7. ENGLAND, N.W.	Barrow-in-Furness	55	35	51·7	41·1	46·4	+ 4·0	3	0·30	?	*	*
	Stonyhurst	54	36	49·9	40·0	45·0	+ 3·8	4	0·82	+0·20	19	20
	Blackpool ℳ	56	35	51·2	40·6	45·9	+ 3·2	5	0·20	−0·20	*	*
	Manchester	55	35	50·4	39·3	44·9	+ 3·3	4	0·64	+0·16	*	*
	Liverpool Obs' (Bidston)	56	39	52·3	42·7	47·5	+ 5·0	5	0·29	−0·01	*	*
	Llandudno ℳ	56	38	50·6	42·5	46·6	+ 3·3	5	0·31	−0·09	12	13
	Holyhead	54	39	51·1	42·9	47·0	+ 3·4	6	0·37	−0·05	*	*
8. ENGLAND, S.W.	Pembroke	53	40	50·3	43·4	46·9	+ 2·7	7	0·69	+0·14	27	28
	Arlington (N. Devon)	57	33	52·0	39·7	45·9	+ 2·9	7	1·08	?	*	*
	Cullompton ℳ	57	30	54·3	40·0	47·2	+ 3·6	7	0·83	?	25	26
	Falmouth	55	41	51·7	44·5	48·1	+ 2·9	6	1·74	+1·15	17	18
	Plymouth	54	35	53·4	42·5	48·0	+ 2·9	6	1·21	+0·63	16	17
	Prawle Point	53	37	51·1	41·9	46·5	+ 2·4	5	0·58	?	*	*
9. IRELAND, N.	Londonderry	58	32	52·5	37·1	44·8	+ 2·3	6	0·75	+0·19	*	*
	Mullaghmore	55	36	49·9	41·9	45·9	+ 2·9	6	0·35	?	*	*
	Markree Castle	58	30	51·8	39·2	45·5	+ 2·4	7	0·24	−0·24	34	35
	Brookeborough	56	34	50·4	39·6	45·0	+ 2·5	6	0·34	?	*	*
	Armagh	58	36	50·6	40·2	45·4	+ 2·9	7	0·60	+0·20	28	29
	Donaghadee	60	39	51·4	42·4	46·9	+ 4·1	4	0·17	?	*	*
10. IRELAND, S.	Dublin	57	38	51·6	42·0	46·8	+ 3·2	6	0·49	−0·04	22	24
	Parsonstown	57	34	52·3	40·4	46·4	+ 3·0	7	0·44	−0·07	32	34
	Waterford	55	32	52·4	40·6	46·5	+ 2·5	5	1·30	+0·68	*	*
	Roche's Point	56	36	53·0	42·0	47·5	+ 3·7	5	1·48	+0·78	*	*
	Valencia	55	39	52·9	42·9	47·9	+ 2·4	7	1·31	+0·41	31	33
	Foynes	59	34	55·6	38·0	46·8	+ 3·0	7	1·60	?	*	*

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Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

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WEEK ENDING MONDAY, APRIL 10, 1882.

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Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

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3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	55	26	48	35	42	2 below.	0	less than ½	4 less.	37	39
	2. ENGLAND, N.E.	59	29	49	38	43	1 below.	1	1	3 less.	56	60
	3. ENGLAND, E.	63	31	54	38	46	0 (average).	2	1	3 less.	63	69
	4. MID. COUNTIES	62	29	56	36	46	1 above.	1	1	3 less.	50	53
	5. ENGLAND, S.	64	30	57	39	48	1 above.	1	less than ½	4 less.	55	60
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	65	29	54	36	45	0 (average).	1	less than ½	5 less.	59	63
	7. ENGLAND, N.W.	63	29	54	38	46	1 below.	1	1	3 less.	53	57
	8. ENGLAND, S.W.	63	31	54	40	47	0 (average).	1	1	5 less.	61	66
	9. IRELAND, N.	62	28	54	39	47	0 (average).	3	2	2 less.	47	51
	10. IRELAND, S.	62	31	55	40	48	1 above.	1	1	6 less.	58	63

General Remarks.

Weather has been dry and very fine and bright in all parts of the Kingdom. Lightning was observed at some south-eastern stations on the 5th.

Temperature has been a little below the mean in the north-eastern parts of the country, and about equal to the average, or slightly above it, elsewhere. The thermometer was highest either on the 6th or 8th, when it rose to 65° at Laudale (Loch Sunart), 64° at Southampton and Strathfield Turgiss, 63° at Barrow-in-Furness, Cullompton, and in London, and to between 55° and 62° elsewhere. The minima were generally registered towards the end of the period, and were rather low, ranging from 26° in "Scotland, E." to 31° in "England, E.", "England, S.W.", and "Ireland, S."

Rainfall has been much less than the mean in all districts.

Bright sunshine shows a very decided increase, the percentages ranging from 39 in "Scotland, E." to as much as 66 in "England, S.W." and 69 in "England, E."

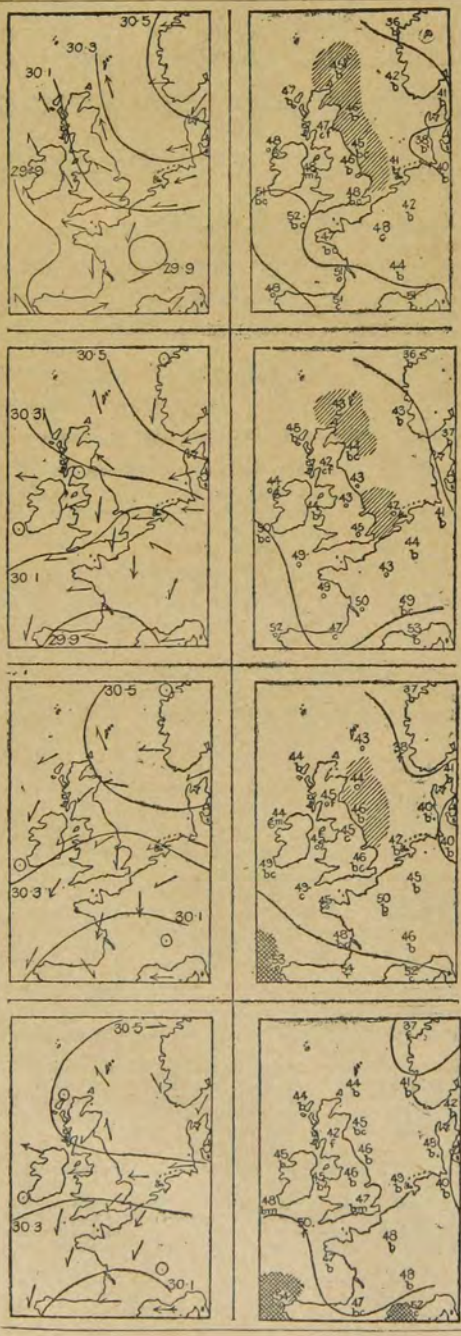
Depressions observed.—During the whole of this period a large area of high pressure has existed over Scandinavia and our northern coasts, while the barometer has been lowest over France. The only depression observed travelled in an easterly direction across France on the 4th and 5th. The wind has consequently been easterly over England and Ireland, and easterly to south-easterly in Scotland. In force it was generally moderate to fresh, but at the close of the period it was exceedingly light, and in many places calm.

R 1609. 460.—4/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending April 10, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 4.

Weather cloudy or dull in a few places over central and southern England and France, but fine and bright elsewhere. Fine all day, but slight rain falling over England at night.

Temperature risen slightly; ranging from 52° at Scilly, to 45° at Wick and 21° in Lapland. Rising slowly during day, and maxima ranging from 47° on our N.E. coasts, to 57° at Cambridge.

Wind easterly over the North Sea and England, but drawing into S.E. in Ireland and Scotland. Moderate to strong in force. Strong easterly and south-easterly winds blowing all day.

Sea rather rough all along our E. coast.

Barometer rising over the whole of western Europe—most in N. Sweden—and readings ranging from above 30·75 ins. in Lapland, to 29·9 ins. in S. Ireland. Rising slowly all day.

Wednesday, April 5.

Weather fine over the N. of France, the eastern shores of the North Sea, and in parts of Scotland and Ireland, cloudy or dull elsewhere. Amount of cloud varying a good deal in different localities during day, and rain falling over England.

Temperature fallen somewhat, and readings ranging from 50° at Valencia, to 36° at Nairn. Not changing much during day, and maxima varying from 45° in the N.E. to 53° in the S.W.

Wind easterly generally, but drawing into S.E. and S. in the N., and into N.E. and N. in France; moderate to fresh in force. Little change later.

Sea rough in the East.

Barometer falling in the S.W. of France, the S.E. of England, and over Scandinavia, rising elsewhere. Pressure still highest over Sweden, and lowest over France. Slight increase occurring during day, except over Norway.

Thursday, April 6.

Weather dull on our N.W. coasts and at Oxford and Hurst Castle, fine and bright elsewhere. Fine except in the N.W. all day.

Temperature changes slight and irregular; readings ranging from 52° at Dover to 37° at Nairn, and maxima in the afternoon varying between 46° in the Shetlands and 63° in southern England.

Wind continuing easterly generally, but still drawing into S.E. in the N. and into N.E. in the S. Light to fresh. Little change later.

Sea rough in the N.E., and high at Coruña.

Barometer rising except in the extreme N. of Scandinavia. Large and well marked anticyclone in the N., with depression in the S. Slight uniform increase during day.

Friday, April 7.

Weather fine and bright in nearly all parts of this country and the Continent, but with slight mist or fog in a few places. Fine all day, with no rain.

Temperature changed very little, but fallen somewhat generally; ranging from 50° at Scilly to 36° at Nairn. Rising during day, and maxima varying between 46° at Nairn and 60° in southern England.

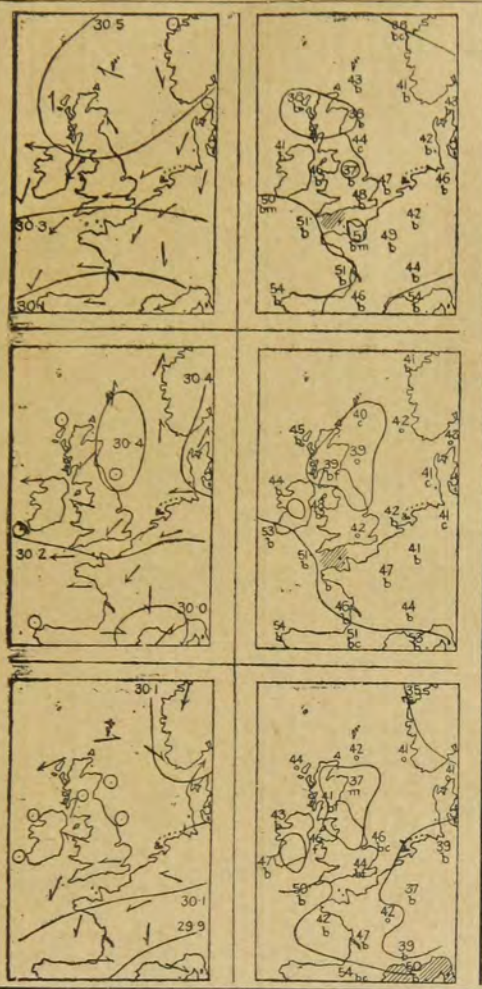
Wind southerly in N. Scotland but easterly in nearly all other places. Blowing rather freshly in the Channel, but moderate or light generally. Moderate and fresh easterly winds all day.

Sea moderate or slight round our coasts.

Barometer rising slowly in all places. Area of high pressure (30·60 ins.) lying near the Shetlands, and lowest readings (30·0 ins.) reported from S. France. Slight fall taking place in Ireland in the evening.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 8.

Weather again fine at nearly every station. Exceedingly fine all day and complete absence of rain over the whole of western Europe.

Temperature changed slightly and irregularly; readings varying between 52° at Dover and 36° at Nairn. Rising briskly later, and thermometer reaching 63° at Barrow-in-Furness and 62° in the S. of England.

Wind still southerly in Scotland and easterly elsewhere; moderate to fresh in force over England, Ireland, and France, light in Scotland. Moderate to fresh easterly winds blowing all day.

Sea rather rough at the entrance to the Channel.

Barometer falling slightly on the eastern shores of the North Sea and in the Shetlands, rising in all other places. Anticyclone still lying near the Shetlands, and pressure lowest in S. France. Falling a little all day.

Sunday, April 9.

Weather become cloudy or dull on our N.E. coasts with some fog, still bright and fine elsewhere. Fine generally during day, and no rain falling.

Temperature fallen somewhat in most districts, and ranging from 53° at Valencia to 38° at Nairn. Maxima between 55° and 60° at the more southern stations.

Wind light from S. in Norway and the N. of Scotland, moderate to fresh from E. and N.E. elsewhere. No change later.

Sea rather rough at the entrance to the Channel.

Barometer falling slowly in nearly all places. Anticyclone in N.E. apparently giving way, but lowest readings still shown in S. France. Pressure decreasing all day.

Monday, April 10.

Weather fine over Ireland, the greater part of England and France, and in N. Germany, cloudy in Scotland and dull with sleet in Scandinavia. Fine except in Scotland during day.

Temperature changed irregularly, but fallen at the majority of stations; readings ranging from 50° in the S.W. to 35° at Shields.

Wind still easterly over France and the Channel, light and variable elsewhere. Very light breezes holding all day.

Sea slight.

Barometer rising somewhat over France, but falling briskly elsewhere. Slight depressions shown over the Gulf of Lyons and Gulf of Bothnia, but pressure high and very uniform over these Islands.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	49	33	47·4	37·3	42·4	+1·3	1	0·11	−0·29	*	*
	Stornoway	57	31	51·7	34·7	43·2	+0·3	0	—	−0·76	46	48
	Wick	52	36	49·1	38·6	43·9	+1·7	0	—	−0·40	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	45	53·1	46·6	49·9	+1·2	0	—	−0·47	*	*
	Jersey (Noirmont)	58	41	53·6	44·6	49·1	+1·0	0	—	−0·57	68	74

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	55	30	48·3	32·6	40·5	− 3·2	0	—	−0·30	*	*
	Aberdeen	52	26	47·9	35·4	41·7	− 1·6	0	—	−0·47	37	39
	Leith	55	32	49·0	37·3	43·2	− 1·6	1	0·02	−0·28	*	*
2. ENGLAND, N.E.	Alnwick Castle	47	30	45·0	36·4	40·7	− 3·2	2	0·28	?	*	*
	Shields	50	32	46·4	38·0	42·2	− 2·6	1	0·06	−0·33	*	*
	Durham	52	29	49·6	35·9	42·8	− 1·2	1	0·17	−0·25	50	53
	Scarborough ℔	49	38	46·6	40·1	43·4	− 1·1	1	0·15	−0·20	*	*
	York	59	30	55·7	35·6	45·7	+ 0·2	1	0·08	−0·30	61	66
	Spurn Head	51	40	48·6	41·9	45·3	+ 0·2	1	0·09	?	*	*
3. ENGLAND, E.	Hillington ℔	59	31	55·6	37·5	46·6	+ 0·9	2	0·20	−0·15	56	60
	Yarmouth	52	41	48·6	42·7	45·7	− 0·5	1	0·11	−0·29	*	*
	Geldeston	56	35	52·5	40·2	46·4	+ 0·1	1	0·06	−0·29	68	74
	Cambridge	63	32	57·9	34·7	46·3	− 0·4	1	0·05	−0·25	66	72
	Rothamsted	60	32	55·5	36·3	45·9	+ 0·2	4	0·03	−0·36	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	59	29	54·1	32·7	43·4	− 2·5	2	0·37	+0·01	*	*
	Loughborough	62	34	57·5	37·8	47·7	+ 1·7	2	0·08	−0·30	*	*
	Leicester	62	33	57·0	37·3	47·2	+ 1·4	2	0·10	−0·20	45	48
	Birmingham (Oscott)	60	31	56·0	36·5	46·3	+ 0·9	1	0·11	−0·35	*	*
	Cheadle ℔	58	30	53·2	35·5	44·4	− 0·2	1	0·11	?	*	*
	Churchstoke ℔	60	29	53·8	34·1	44·0	− 1·8	1	0·02	?	44	47
	Hereford ℔	60	32	56·6	36·7	46·7	+ 0·2	0	—	−0·35	*	*
	Cirencester	59	29	55·7	36·3	46·0	− 0·1	0	—	−0·46	50	54
	Oxford	62	34	57·6	38·1	47·9	+ 1·2	1	0·01	−0·34	59	64
5. ENGLAND, S.	London†	63	32	58·0	39·1	48·6	+ 1·5	0	—	−0·36	47	51
	Marlborough ℔	61	30	55·9	36·4	46·2	+ 0·1	1	0·04	−0·43	53	58
	Strathfield Turgiss ℔	64	30	59·9	35·6	47·8	+ 0·5	0	—	−0·40	*	*
	Dover	55	41	51·9	43·4	47·7	+ 0·1	1	0·03	−0·42	*	*
	Hastings (St. Leonard's)	62	39	56·6	41·9	49·3	+ 2·1	1	0·04	−0·38	*	*
	Southampton	64	35	59·9	39·1	49·5	+ 1·9	0	—	?	65	71
	Hurst Castle	61	35	56·1	39·6	47·9	− 0·1	1	0·10	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	65	32	56·1	35·8	46·0	+ 1·4	0	—	?	*	*
	Glasgow	56	31	52·1	36·7	44·4	+ 0·1	0	—	−0·51	49	52
	Ardrossan	59	33	53·0	36·3	44·7	− 0·3	1	0·03	−0·47	*	*
	Silloth (Cumberland)	59	29	55·3	35·8	45·6	+ 0·1	1	0·02	−0·37	64	68
	Douglas (Isle of Man)	58	29	53·7	37·6	45·7	0·0	1	0·01	−0·50	63	68
7. ENGLAND, N.W.	Barrow-in-Furness	63	34	56·3	38·3	47·3	+ 1·2	1	0·04	?	*	*
	Stonyhurst	57	32	53·4	36·9	45·2	+ 0·1	1	0·10	−0·50	56	60
	Blackpool ℔	60	29	54·4	33·6	44·0	− 2·4	1	0·17	−0·20	50	54
	Manchester	58	33	54·1	36·9	45·5	+ 0·1	2	0·09	−0·38	*	*
	Liverpool Obsy (Bidston)	59	35	54·9	37·9	46·4	+ 0·1	1	0·19	−0·11	*	*
	Llandudno ℔	55	37	52·1	38·7	45·4	− 1·6	1	0·10	−0·30	54	58
	Holyhead	55	35	52·7	40·1	46·4	− 0·9	1	0·01	−0·39	*	*
8. ENGLAND, S.W.	Pembroke	57	38	53·1	40·4	46·8	− 0·5	1	0·06	−0·46	62	67
	Arlington (N. Devon)	59	31	53·7	36·7	45·2	− 1·4	1	0·07	?	*	*
	Cullompton ℔	63	31	56·3	37·7	47·0	− 0·3	2	0·10	?	49	53
	Falmouth	54	40	52·6	44·2	48·4	+ 0·5	1	0·02	−0·54	65	71
	Plymouth	60	36	56·3	40·7	48·5	+ 0·3	1	0·04	−0·49	67	73
	Prawle Point	56	36	54·1	40·7	47·4	− 0·2	1	0·05	?	*	*
9. IRELAND, N.	Londonderry	62	31	56·0	35·8	45·9	+ 0·2	2	0·35	−0·20	*	*
	Mullaghmore	59	40	54·9	41·9	48·4	+ 2·3	3	0·08	?	*	*
	Markree Castle	60	28	57·2	37·3	47·3	+ 1·0	3	0·09	−0·31	?	?
	Brookeborough	61	28	54·0	37·7	45·9	0·0	3	0·29	?	*	*
	Armagh	57	34	52·2	38·6	45·4	− 0·6	3	0·40	−0·04	47	51
	Donaghadee	54	40	50·7	41·4	46·1	− 0·3	1	0·10	?	*	*
10. IRELAND, S.	Dublin	57	34	51·7	40·6	46·2	− 0·7	2	0·44	+0·14	51	55
	Parsonstown	61	31	56·1	37·7	46·9	+ 0·5	0	—	−0·49	54	58
	Waterford	58	31	54·9	39·4	47·2	+ 0·1	1	0·01	−0·59	*	*
	Roche's Point	57	38	54·7	41·3	48·0	+ 0·5	0	—	−0·68	*	*
	Valencia	62	39	57·9	42·4	50·2	+ 2·1	2	0·09	−0·80	69	75
	Foynes	61	36	56·4	38·0	47·2	+ 0·7	1	0·03	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Note.—The Reports from Nottingham have now ceased.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, APRIL 17, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	56	27	43	34	39	6 below.	6	14	10 more.	11	11
	2. ENGLAND, N.E.	55	26	48	37	42	3 below.	4	17	13 more.	9	9
	3. ENGLAND, E.	59	29	33	39	46	2 below.	5	9	5 more.	27	28
	4. MID. COUNTIES	61	26	54	38	46	1 below.	5	10	6 more.	26	27
	5. ENGLAND, S.	62	30	55	42	49	0 (average).	5	10	6 more.	28	29
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	54	26	48	36	42	4 below.	6	10	6 more.	16	16
	7. ENGLAND, N.W.	62	29	52	40	46	2 below.	5	16	11 more.	17	18
	8. ENGLAND, S.W.	59	32	54	43	49	0 (average).	7	15	10 more.	25	27
	9. IRELAND, N.	61	25	51	38	45	3 below.	4	6	1 more.	20	21
	10. IRELAND, S.	59	29	53	41	47	1 below.	6	11	4 more.	20	21

General Remarks.

Weather has been very dull and unsettled; much rain has fallen in the S. and S.W., and heavy snow and rain in the N., while a thunderstorm was experienced in the S.E. on the 15th.

Temperature has been below the mean in all districts except "England, S." and "England, S.W." where it was about equal to the average. In Scotland the deficit was as much as 4° to 6°. The maxima were generally registered either on the 11th or 15th, and ranged from 54° in "Scotland, W." to 62° in "England, S." and "England, N.W." The minima were very low for the season, a reading of 25° being recorded at Markree Castle on the 16th, and 26° at Durham, Churchstoke, Douglas, and Brookeborough, while at many other stations the thermometer fell to between 27° and 32°.

Rainfall has been more than the mean in all districts, the excess being considerable in all parts of the Kingdom except "Ireland, N."

Bright sunshine has been much less prevalent than during last week, the percentages ranging from 29 in "England, S." to only 9 in "England, N.E."

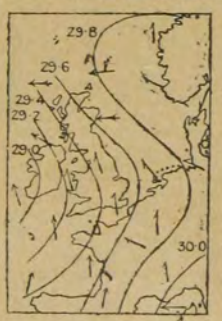
Depressions observed.—The distribution of pressure during this period has undergone sudden and considerable alterations, several depressions having advanced over our Islands from the westward or south-westward. The wind has consequently been very variable in direction, but was generally between S. and E. during the earlier part of the period, and between N. and N.E. (except over Ireland) on the 15th and 16th, while by the 17th it was southerly to westerly over England and Ireland, and southerly to easterly in Scotland. In force it was light to moderate on most days, but on the 13th, 14th, and 15th a strong breeze or fresh gale was experienced.

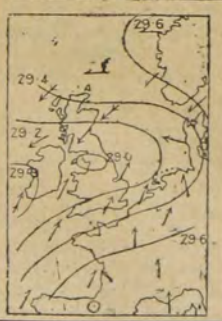
R 1725. 460.—4/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending April 17, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 11.

Weather fine over France and the S. of England, cloudy or dull elsewhere, with snow in the Shetlands. Fair on the whole during the day.

Temperature risen slightly at most of our stations, but fallen quickly over Scandinavia. Readings ranging from 50° in the S.W., to 33° at Sumburgh Head. Rising fast in the S.E. later, and thermometer reaching 60° in London and at Oxford.

Wind moderate or light in force; direction variable, but generally easterly in the N. and W., and south-westerly in the S. Little change during the day.

Sea slight or smooth round our coasts.

Barometer fallen everywhere; distribution very irregular, pressure being high in the N. of Sweden and W. of France, and low over the S. of Norway and W. of Ireland. Falling all day.

Wednesday, April 12.

Weather cloudy or dull at nearly every station, with much mist or rain on our S.W. coasts. Cloudy or dull all day, and rain spreading to all districts.

Temperature risen briskly in Ireland, the S.E. of England, and the N.W. of France, fallen elsewhere; and readings ranging from 51° in London, to 37° in the Shetlands. Maxima ranging from only 42° in Caithness, to 59° in southern England.

Wind southerly over France and the S. of England, south-easterly to easterly on our other coasts; moderate to fresh in force. Moderate to fresh winds between S.W. and S.E. blowing all day.

Sea rough at Valencia and Stornoway.

Barometer falling except in the E. of France and on the eastern shores of the North Sea. Large area of high pressure lying over France and N. Germany, with shallow depression off the W. of Ireland. Falling slowly all day.

Thursday, April 13.

Weather dull and unsettled over the whole of western Europe, with rain at the great majority of stations. Dull, rainy, and unsettled in all districts.

Temperature fallen in parts of Scotland and the S.E. of England, but risen generally, and ranging from 54° at Scilly to 38° at Nairn. Changing very little later, but rising to 62° at Holyhead in the afternoon.

Wind still southerly over France and our southern districts, and south-easterly to easterly in the N., blowing strongly generally, and reaching a gale in Scotland. Gale in the N. holding all day.

Sea rough except on our S.E. coasts.

Barometer falling everywhere—most in the S.W. Large depression shown in the S.W., with areas of high pressure in the S.E. of France and over Scandinavia. Falling all day.

Friday, April 14.

Weather fine over the N. of France and S. of England, dull and very unsettled elsewhere, with rain in many places. Little change later; fine all day in the S.E., dull and rainy elsewhere.

Temperature fallen generally; readings ranging from 53° in London to 36° at Wick. Maxima in afternoon varying between 60° in London and only 39° in N. Scotland. Slight frost in N. at night.

Wind strong and squally, blowing from W. and S.W. on our southern coasts and over France, and from E. in the N. and over Scandinavia. No change later.

Sea rough or high generally.

Barometer rising over France, Ireland, and the S. of England, falling elsewhere. Readings relatively high in the S. of France and N. of Sweden, with well marked depressions over Ireland and the Irish Sea. Pressure increasing later, and disturbances filling up.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 15.

Weather cloudy or dull generally with snow showers in Scotland and rain on our N.W. coasts. Fair on the whole during the day, but some snow showers occurring in N. Scotland.

Temperature fallen briskly generally, and readings ranging from 52° at Scilly to 37° at Nairn. Falling in the S. during day and maxima varying between 38° in the N. and 56° in the S. Slight frost at night.

Wind northerly to north-easterly on our coasts but south-westerly in the W. of France. Blowing freshly except in the S.E. of England. Fresh or strong north-easterly and northerly winds blowing all day.

Sea rough round a large part of our coast.

Barometer rising over these Islands—quickly on our N.W. coasts—but falling on the continent. Depressions shown over the Bay of Biscay and over Denmark, with area of high pressure on our N.W. coasts. Rising slowly all day.

Sunday, April 16.

Weather fine over England, Denmark, and the N. of Scandinavia, cloudy or dull elsewhere, with rain or snow at a few stations. Rain setting in in the S.W. later and snow in the N.E.

Temperature again fallen except in S. Ireland; ranging from 47° in the S. to 30° in the N. Rising except in the N.E. later, and maxima varying between only 34° at Nairn and 55° in London.

Sea rough at Valencia and Sumburgh Head.

Wind south-easterly and southerly in the S.W. and W. and north-westerly to north-easterly in the N. and E.; moderate in force generally. Southerly breezes becoming general in the evening.

Monday, April 17.

Weather very unsettled, dull and rainy in the S., overcast with heavy snow in the N. Dull and unsettled all day.

Temperature risen somewhat, and readings ranging from 51° at Scilly to 33° at Nairn. Maxima varying between 38° and 58°. Slight frost again felt in the N.

Wind westerly and south-westerly in the S., but drawing into S. in the N. of England and into E. in the N. of Scotland. Shifting to N. and N.W. in the W. and S.W. later, and rising to a gale at Scilly.

Sea rough at Stornoway, Mullaghmore, and Hurst Castle.

Barometer rising in the S.E. of France and over Scandinavia, but falling over the British Isles. Depressions shown off the W. coast of Scotland and over the St. George's Channel. Disturbances passing north-eastward later and pressure increasing in W.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	43	27	40·7	30·7	35·7	−6·3	5	0·46	−0·02	*	*
	Stornoway	50	26	43·3	33·6	38·5	−5·3	5	0·42	−0·27	25	25
	Wick	43	24	39·9	32·6	36·3	−6·9	5	0·75	+0·35	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	45	54·7	46·9	50·8	+1·4	6	1·35	+0·89	*	*
	Jersey (Noirmont)	57	41	54·1	44·4	49·3	−0·2	6	0·90	+0·45	32	34

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	48	28	40·3	33·4	36·9	− 7·8	6	1·17	+0·87	*	*
	Aberdeen	46	27	42·6	34·1	38·4	− 5·9	7	2·00	+1·50	11	11
	Leith	56	30	47·6	34·7	41·2	− 4·6	5	1·01	+0·58	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	28	44·9	36·0	40·5	− 4·4	4	2·58	?	*	*
	Shields	53	29	46·3	36·0	41·2	− 4·3	5	1·52	+1·12	*	*
	Durham	55	26	47·1	34·0	40·6	− 4·5	5	1·51	+1·07	9	9
	Scarborough ⚓	52	32	47·6	38·7	43·2	− 2·5	4	1·83	+1·37	*	*
	York	55	29	51·0	36·7	43·9	− 2·8	4	1·99	+1·59	8	8
	Spurn Head	55	38	49·1	41·1	45·1	− 1·2	4	0·76	?	*	*
3. ENGLAND, E.	Hillington ⚓	58	30	53·6	37·8	45·7	− 1·3	4	0·94	+0·59	24	25
	Yarmouth	57	37	51·1	41·3	46·2	− 1·4	5	0·93	+0·53	*	*
	Geldeston	59	31	52·9	38·3	45·6	− 2·1	4	0·85	+0·50	24	25
	Cambridge	59	29	55·1	37·9	46·5	− 1·5	6	0·68	+0·38	32	34
	Rothamsted	57	30	53·9	38·0	46·0	− 1·0	5	0·90	+0·49	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	57	27	52·4	37·7	45·1	− 2·0	4	1·03	+0·66	*	*
	Loughborough	59	28	53·7	38·2	46·0	− 1·4	5	0·85	+0·48	*	*
	Leicester	60	34	52·6	39·8	46·2	− 1·0	5	0·87	+0·57	20	21
	Birmingham (Oscott)	58	29	53·3	37·4	45·4	− 1·5	5	1·01	+0·56	*	*
	Cheadle ⚓	55	29	51·7	37·3	44·5	− 1·5	5	1·26	?	*	*
	Churchstoke ⚓	61	26	54·4	37·0	45·7	− 1·3	4	0·60	?	27	28
	Hereford ⚓	60	28	55·3	38·5	46·9	− 1·1	5	1·18	+0·83	*	*
	Cirencester	58	29	54·0	37·4	45·7	− 0·9	5	0·98	+0·52	25	26
	Oxford	60	30	55·0	40·3	47·7	− 0·5	5	1·00	+0·64	31	33
5. ENGLAND, S.	London†	60	34	57·3	40·6	49·0	+ 0·3	3	0·37	+0·01	23	24
	Marlborough ⚓	59	31	54·5	38·8	46·7	− 0·8	6	1·08	+0·61	28	29
	Strathfield Turgiss ⚓	62	30	57·3	38·0	47·7	− 0·7	5	0·68	+0·27	*	*
	Dover	56	39	52·6	44·0	48·3	− 0·8	5	0·96	+0·53	*	*
	Hastings (St. Leonard's)	60	37	54·4	43·6	49·0	+ 0·2	4	1·28	+0·86	*	*
	Southampton	62	35	55·9	42·8	49·4	+ 0·4	7	1·22	?	33	35
	Hurst Castle	56	38	52·7	44·0	48·4	− 1·0	7	1·38	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	51	30	45·4	34·2	39·8	− 5·8	5	1·68	?	*	*
	Glasgow	54	29	47·0	35·8	41·4	− 4·1	7	1·03	+0·50	15	15
	Ardrossan	52	33	47·3	35·6	41·5	− 4·7	5	0·55	+0·04	*	*
	Silloth (Cumberland)	54	27	50·0	36·9	43·5	− 3·2	5	0·97	+0·57	16	16
	Douglas (Isle of Man)	53	26	49·3	37·8	43·6	− 3·3	6	1·76	+1·28	16	16
7. ENGLAND, N.W.	Barrow-in-Furness	56	33	50·9	39·0	45·0	− 2·4	5	1·92	?	*	*
	Stonyhurst	53	33	49·8	38·5	44·2	− 2·4	4	2·27	+1·67	14	14
	Blackpool ⚓	58	30	51·8	38·4	45·1	− 2·8	6	1·97	+1·62	15	15
	Manchester	56	29	51·9	37·8	44·9	− 2·0	5	2·08	+1·63	*	*
	Liverpool Obsy (Bidston)	58	35	52·1	40·7	46·4	− 1·2	4	0·88	+0·59	*	*
	Llandudno ⚓	62	34	52·9	41·1	47·0	− 1·5	5	0·84	+0·44	23	24
	Holyhead	62	37	52·4	42·3	47·4	− 1·1	6	0·87	+0·47	*	*
8. ENGLAND, S.W.	Pembroke	55	38	51·0	44·1	47·6	− 1·0	7	0·94	+0·44	30	32
	Arlington (N. Devon)	59	32	53·3	41·9	47·6	− 0·2	7	1·14	?	*	*
	Cullompton ⚓	58	32	55·3	?42·4	?48·9	?+ 0·2	7	1·58	?	19	20
	Falmouth	57	40	54·2	45·5	49·9	+ 1·1	7	2·08	+1·50	30	32
	Plymouth	59	35	55·7	43·1	49·4	− 0·0	7	1·86	+1·35	22	23
	Prawle Point	56	38	52·6	43·3	48·0	− 0·7	6	1·47	?	*	*
9. IRELAND, N.	Londonderry	61	29	52·1	36·3	44·2	− 2·7	4	0·48	−0·08	*	*
	Mullaghmore	58	35	51·4	41·1	46·3	− 1·0	3	0·33	?	*	*
	Markree Castle	60	25	53·1	36·4	44·8	− 2·7	3	0·27	−0·11	20	21
	Brookeborough	61	26	52·0	37·0	44·5	− 2·6	5	0·74	?	*	*
	Armagh	56	31	51·0	38·8	44·9	− 2·4	6	0·87	+0·41	20	21
	Donaghadee	54	30	48·7	38·6	43·7	− 3·9	4	0·96	?	*	*
10. IRELAND, S.	Dublin	58	31	52·0	41·5	46·8	− 1·4	6	1·41	+0·81	17	18
	Parsonstown	58	29	53·1	38·9	46·0	− 1·6	4	0·58	+0·13	11	11
	Waterford	55	29	51·5	40·9	46·2	− 2·1	6	0·93	+0·34	*	*
	Roche's Point	56	34	53·0	42·6	47·8	− 0·6	5	0·95	+0·31	*	*
	Valencia	57	38	53·4	44·3	48·9	− 0·1	6	1·57	+0·72	32	34
	Foynes	59	33	53·4	40·1	46·8	− 0·5	6	0·84	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, APRIL 24, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	61	32	55	40	47	1 above.	5	8	4 more.	36	35
	2. ENGLAND, N.E.	65	35	56	43	49	3 above.	5	7	3 more.	26	24
	3. ENGLAND, E.	67	33	58	43	51	2 above.	5	4	0 (average).	34	30
	4. MID. COUNTIES	68	35	58	44	51	2 above.	6	9	5 more.	38	38
	5. ENGLAND, S.	65	32	58	46	52	2 above.	6	8	4 more.	36	37
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	58	32	53	43	48	1 above.	6	18	12 more.	29	29
	7. ENGLAND, N.W.	60	39	55	45	50	1 above.	6	14	10 more.	29	29
	8. ENGLAND, S.W.	63	34	56	46	51	1 above.	6	15	10 more.	43	44
	9. IRELAND, N.	62	36	56	43	49	1 above.	5	9	5 more.	36	36
	10. IRELAND, S.	62	36	56	45	50	1 above.	6	13	7 more.	36	36

General Remarks.

Weather has been cloudy and unsettled. Heavy showers of rain have occurred in all parts of the Kingdom, while a sharp thunderstorm was experienced over central and south eastern England on the 23rd or 24th.

Temperature has been several degrees higher than it was during last week, and was a little above the mean in all districts. The thermometer was generally highest on the 21st, when maxima of 67° or 68° were registered over eastern and central England, and 60° to 65° in most other districts. The minima, which were recorded in most places during the earlier part of the period, varied from 32° over Scotland and in "England, S.", to 39° in "England, N.W."

Rainfall has been about the average in "England, E.", but more in all other districts; at all our more western stations the excess was rather large.

Bright sunshine shows an increase in all districts; the percentage was greatest (44) in "England, S.W." and least (26) in "England, N.E."

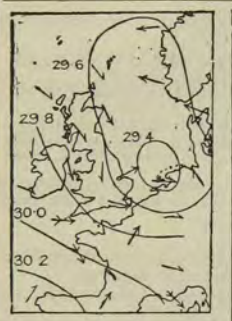
Depressions observed.—The barometer has been very unsteady, several important depressions, and some secondary disturbances, having passed over our Islands in an easterly direction. The wind, which was at first north-westerly, subsequently varied between W. and S., and, though moderate or light generally, increased to a fresh or strong breeze at times and reached the force of a gale in the S. on the 22nd and 23rd, and at some of our north-western ports on the 24th.

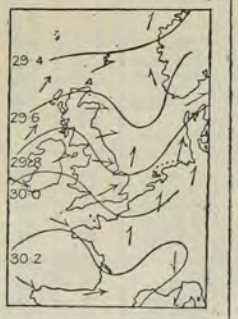
R 1835. 460.—4/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending April 24, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 18.

Weather fine over nearly the whole of these Islands and France as well as in Sweden and the N. of Norway, dull and rain in Denmark and N. Germany. Becoming dull and rainy in the W. later, but remaining fine in the E. and N.

Temperature fallen a little except in Scotland; readings ranging from 52° at Valencia to 38° at Nairn. Maxima below 50° in the N., between 50° and 57° elsewhere.

Wind northerly on most of our coasts, and north-westerly over the Channel and France, but drawing into S. and S.E. on the eastern shores of the North Sea. Blowing strongly generally, and reaching a gale in the S. Backing to S. in Ireland later.

Sea rough or high in the S. and S.W.

Barometer falling over N. Germany, Denmark, and S. Norway, rising elsewhere—quickly in the W. Disturbance shown near the Helder. Rising generally during day, but fresh fall appearing at Valencia later.

Wednesday, April 19.

Weather still fine in France, dull and unsettled elsewhere, with rain in several places. Clearing somewhat in the N. and E. later, but heavy rain commencing in Ireland.

Temperature risen generally—briskly in the W.; readings ranging from 56° at Parsonstown to 40° at Stornoway. High and uniform during day, maxima between 52° and 63°.

Wind south-westerly and southerly on nearly all our coasts; blowing a gale at Valencia, and freshly or strongly generally. Fresh south-westerly winds holding all day.

Sea rough in the W. and S.

Barometer rising over France and the S.E. of England, falling elsewhere. Anticyclone shown over France, with rather large depression off the N.W. of Scotland. Falling slowly during day.

Thursday, April 20.

Weather fine in the W. and N., dull and showery in the S.E. and on the Continent generally. Dull and rainy or misty in the extreme W. later, but fine elsewhere during greater part of day.

Temperature fallen in the W., risen in most other places; readings ranging from 53° in the S.W. to 48° at Nairn. Uniform during day, and maxima between 55° and 64°.

Wind varying between S.W. and N.W. at our own and the French stations, between S.W. and S.E. on the eastern shores of the North Sea; fresh or strong in force. Moderate to strong breezes between S. and W. blowing all day.

Sea rough at some western and southern ports and at Skudesnaes.

Barometer falling over our south-eastern districts and Denmark and Scandinavia, rising elsewhere. Pressure highest over France and lowest to the northward of Scotland, but with small depression over North Sea. Rising during day.

Friday, April 21.

Weather fine in our eastern, central, and southern districts as well as over France and Denmark, cloudy or dull elsewhere; rain falling at Stornoway. Fair during greater part of day except in W.

Temperature fallen slightly; readings ranging from 55° in London to 46° at Stornoway. Maxima varying between 55° and 67°.

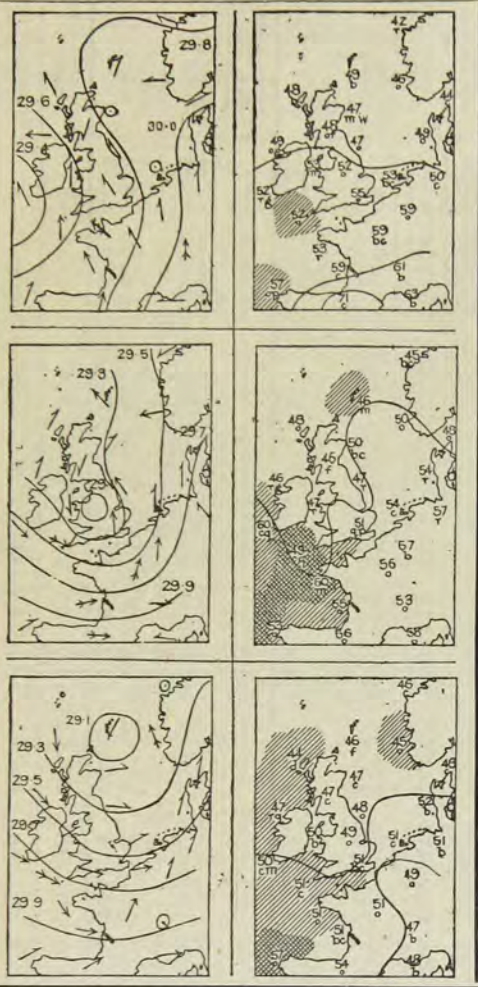
Wind easterly and south-easterly over France, south-westerly and southerly on our coasts, and westerly over Scandinavia; strong in the W. and N., light in the S.E. and E. Moderate or fresh breezes between S.E. and S.W. during day.

Sea rough in the S.W. and W.

Barometer falling in the W. and S.W., rising elsewhere—briskly in the S.E. of England. Large anticyclone lying over France and pressure lowest over Lapland. Giving way all day—most in the S.W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 22.

Weather fine in the N. of Scotland and the S.E. of France, dull and unsettled elsewhere, with rain at many western and south-western stations. Heavy rain in many places in afternoon, but weather clearing in S.E. in evening.

Temperature risen in the S., fallen elsewhere; readings ranging from 55° in London to 42° at Nairn. Rather low all day; maxima varying between 51° and 59°.

Wind southerly at the entrance to the Channel, but south-easterly on most of our own and the French coasts. Strong in the S.W., moderate or light elsewhere. South-easterly gale springing up at Scilly later.

Sea rough in the S.W.

Barometer falling except in Sweden. Decrease rapid in S. Ireland, and large depression shown off our S.W. coasts. Secondary depression appearing near Scilly later and barometer falling fast in southern England.

Sunday, April 23.

Weather very unsettled, dull and rainy except in some parts of Scotland. Heavy showers occurring at intervals in most districts during the day.

Temperature fallen a little in most places; readings ranging from 53° at Dover to 40° at Leith. Changeable during day and maxima varying between 52° and 63°.

Wind north-westerly in Ireland, north-westerly and westerly over France and southern England, and southerly on our S.E. coasts and over the North Sea; blowing strongly, but light variable breezes prevailing in Scotland. Little change later; gale blowing in Channel.

Sea very rough in the S. and S.W., and at Sumburgh Head.

Barometer recovering on our S.W. coasts, but falling fast elsewhere, and well marked depression shown over Wales. Disturbance passing northward later and recovery extending.

Monday, April 24.

Weather fine over the E. of Ireland and the W. and S.E. of England, but cloudy or dull in most other districts, with rain in a few places. Rather showery all day

Temperature risen at some north-western stations, but fallen in most places, and readings ranging from 51° in the S.W. and S.E. to 44° in the N. Maxima varying between 45° in the N. and 59° in London.

Wind northerly and north-westerly on our coasts, westerly in France, and southerly on the eastern shores of the North Sea; blowing freshly and strongly generally. Little change during day.

Sea rough in the W., S., and N.

Barometer falling over Scandinavia and N.E. Scotland; rising elsewhere. Pressure highest in S. France, with a depression off the N.E. coast of Scotland. Slight fall commencing at Valencia in the evening.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	52	31	48·9	39·9	44·4	+1·3	6	0·93	+0·48	*	*
	Stornoway	54	30	50·3	36·1	43·2	−1·6	7	2·27	+1·67	24	23
	Wick	57	31	52·4	39·6	46·0	+1·8	4	0·53	+0·13	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	—	—	—	—	—	—	—	—	—	*	*
	Jersey (Noirmont)	61	45	56·9	47·7	52·3	+1·6	6	0·48	+0·08	51	53

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	59	32	53·9	39·6	46·8	+ 1·0	5	0·67	+0·34	*	*
	Aberdeen	61	35	55·1	39·4	47·3	+ 1·8	5	0·68	+0·18	36	35
	Leith	61	37	55·3	41·1	48·2	+ 1·3	5	0·91	+0·56	*	*
2. ENGLAND, N.E.	Alnwick Castle	60	36	53·7	42·0	47·9	+ 1·8	5	0·69	?	*	*
	Shields	59	38	53·9	42·1	48·0	+ 1·3	5	0·58	+0·18	*	*
	Durham	61	35	56·4	42·0	49·2	+ 2·9	5	0·92	+0·47	23	23
	Scarborough ℳ	63	41	56·7	44·4	50·6	+ 3·7	5	0·72	+0·23	*	*
	York	65	40	58·3	43·4	50·9	+ 3·0	5	0·71	+0·31	28	28
	Spurn Head	63	42	55·1	44·9	50·0	+ 2·5	5	0·57	?	*	*
3. ENGLAND, E.	Hillington ℳ	66	33	57·2	42·3	49·8	+ 1·6	5	0·33	−0·05	22	22
	Yarmouth	60	39	55·6	44·1	49·9	+ 1·1	5	0·21	−0·19	*	*
	Geldeston	64	36	58·5	42·8	50·7	+ 1·8	4	0·14	−0·16	34	34
	Cambridge	67	37	60·6	43·6	52·1	+ 3·0	5	0·44	+0·11	33	33
	Rothamsted	64	37	57·6	42·1	49·9	+ 1·5	7	0·64	+0·21	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	68	39	60·1	43·0	51·6	+ 3·2	6	0·34	−0·04	*	*
	Loughborough	65	39	58·3	44·2	51·3	+ 2·7	6	0·74	+0·36	*	*
	Leicester	65	41	58·8	44·6	51·7	+ 3·2	5	0·87	+0·57	30	30
	Birmingham (Oscott)	62	39	57·4	43·3	50·4	+ 2·2	6	0·77	+0·32	*	*
	Cheadle ℳ	60	38	55·9	41·6	48·8	+ 1·6	6	1·16	?	*	*
	Churchstoke ℳ	63	38	57·3	42·7	50·0	+ 1·8	6	0·63	?	42	42
	Hereford ℳ	63	35	60·1	43·7	51·9	+ 2·7	5	0·75	+0·40	*	*
	Cirencester	62	36	57·2	43·7	50·5	+ 1·7	6	1·33	+0·87	41	41
	Oxford	62	40	58·1	46·3	52·2	+ 2·8	6	1·32	+0·94	40	40
5. ENGLAND, S.	London†	65	40	59·6	45·9	52·8	+ 2·7	5	0·70	+0·31	26	27
	Marlborough ℳ	61	37	57·5	43·5	50·5	+ 1·8	6	1·54	+1·06	39	40
	Strathfield Turgiss ℳ	64	32	60·0	43·2	51·6	+ 2·0	6	0·84	+0·38	*	*
	Dover	62	43	56·1	47·3	51·7	+ 1·4	6	0·32	−0·08	*	*
	Hastings (St. Leonard's)	60	43	56·5	46·7	51·6	+ 1·6	5	0·27	−0·15	*	*
	Southampton	65	41	59·4	46·5	53·0	+ 2·8	6	0·91	?	44	45
	Hurst Castle	60	43	56·7	47·0	51·9	+ 1·3	7	1·07	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	55	34	52·8	42·6	47·7	+ 1·1	7	2·38	?	*	*
	Glasgow	58	40	54·1	43·4	48·8	+ 2·2	7	1·28	+0·75	25	25
	Ardrossan	57	32	52·1	43·0	47·6	+ 0·3	6	1·65	+1·15	*	*
	Silloth (Cumberland)	57	41	53·8	43·6	48·7	+ 0·9	5	1·72	+1·32	29	29
	Douglas (Isle of Man)	56	41	52·3	43·7	48·0	0·0	5	1·82	+1·37	34	34
7. ENGLAND, N.W.	Barrow-in-Furness	55	42	52·6	45·3	49·0	+ 0·4	5	1·90	?	*	*
	Stonyhurst	60	40	55·0	44·6	49·8	+ 2·0	6	1·85	+1·29	26	26
	Blackpool ℳ	55	42	53·4	44·4	48·9	− 0·2	5	1·25	+0·91	27	27
	Manchester	60	39	55·1	43·1	49·1	+ 0·9	6	1·27	+0·82	*	*
	Liverpool Obsr (Bidston)	60	42	56·7	45·0	50·9	+ 1·9	6	0·74	+0·48	*	*
	Llandudno ℳ	60	42	55·2	45·1	50·2	+ 0·6	6	1·29	+0·89	33	33
	Holyhead	57	43	54·3	45·9	50·1	+ 0·4	5	1·13	+0·77	*	*
8. ENGLAND, S.W.	Pembroke	54	44	51·9	46·6	49·3	− 0·4	5	1·06	+0·57	40	40
	Arlington (N. Devon)	59	36	54·6	43·7	49·2	+ 0·2	6	1·73	?	*	*
	Cullompton ℳ	61	34	57·8	45·0	51·4	+ 1·5	6	1·30	?	47	48
	Falmouth	59	46	55·2	47·8	51·5	+ 1·6	6	2·09	+1·53	43	44
	Plymouth	63	44	59·1	47·5	53·3	+ 2·7	6	1·61	+1·11	41	42
	Prawle Point	55	42	54·1	45·3	49·7	− 0·1	6	1·28	?	*	*
9. IRELAND, N.	Londonderry	62	37	57·8	41·0	49·4	+ 1·5	6	0·98	+0·44	*	*
	Mullaghmore	59	44	55·1	45·3	50·2	+ 1·9	6	0·82	?	*	*
	Markree Castle	62	37	56·0	42·3	49·2	+ 0·7	6	1·16	+0·76	?	?
	Brookeborough	58	36	54·4	42·1	48·3	+ 0·1	5	1·00	?	*	*
	Armagh	59	36	56·0	42·6	49·3	+ 0·7	5	0·73	+0·28	36	36
	Donaghadee	60	40	55·1	44·3	49·7	+ 1·0	4	0·88	?	*	*
10. IRELAND, S.	Dublin	62	37	57·3	44·8	51·1	+ 1·9	6	0·80	+0·20	48	48
	Parsonstown	61	36	56·4	43·1	49·8	+ 1·1	5	1·23	+0·77	36	36
	Waterford	58	40	54·7	44·9	49·8	+ 0·4	7	1·28	+0·73	*	*
	Roche's Point	59	42	55·6	45·7	50·7	+ 1·1	5	1·44	+0·82	*	*
	Valencia	57	44	55·0	47·3	51·2	+ 1·3	6	2·09	+1·29	23	23
	Foynes	58	39	55·3	42·7	49·0	+ 0·5	7	1·20	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, MAY 1, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	55	34	51	38	44	3 below.	4	4	0 (average).	32	30
	2. ENGLAND, N.E.	57	32	51	39	45	3 below.	6	12	8 more.	41	39
	3. ENGLAND, E.	58	34	54	39	46	4 below.	7	18	14 more.	37	36
	4. MID. COUNTIES	60	32	53	38	45	4 below.	6	14	10 more.	37	36
	5. ENGLAND, S.	59	32	54	40	47	4 below.	6	15	11 more.	40	40
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	55	32	50	38	44	4 below.	5	7	1 more.	36	35
	7. ENGLAND, N.W.	55	31	50	39	45	5 below.	6	12	8 more.	32	31
	8. ENGLAND, S.W.	58	33	53	40	47	4 below.	7	15	10 more.	45	44
	9. IRELAND, N.	56	29	51	37	44	5 below.	6	9	4 more.	40	38
	10. IRELAND, S.	61	31	52	38	45	5 below.	6	14	9 more.	43	42

General Remarks.

Weather has been very changeable, densely overcast skies with heavy showers of rain and hail alternating with frequent intervals of sunshine. Towards the latter part of the period thunderstorms occurred in many places, while snow fell in southern Ireland and at some of the central English stations.

Temperature has been below the mean in all districts, the deficit varying from 3° in the N. to 5° in the W. The maxima were lower than during last week, and ranged from 61° in "Ireland, S." and 60° in the "Midland Counties", to 55° over Scotland and in "England, N.W." The minima, which were registered on various days in different parts of the Kingdom, were as low as 29° in "Ireland, N.", 31° in "England, N.W." and "Ireland, S.", and 32° to 34° elsewhere.

Rainfall was about equal to the mean in "Scotland, E.", but in all other districts it has again been more than the average, the excess in England being large.

Bright sunshine has been slightly more than that registered last week, the percentages ranging from 30 in "Scotland, E." to 44 in "England, S.W."

Depressions observed.—The changes in pressure have been very sudden and considerable. Some well defined and deep depressions have crossed our Islands in an easterly direction, the most serious one passing over southern England on the 29th. The wind until the 27th was generally northerly, and strong in Scotland; but during the remaining part of the period its direction was very variable. On the 29th a very severe south-westerly gale was felt over our southern counties, south easterly to easterly winds and gales over northern England, and northerly gales in Ireland. As the depression passed away the wind moderated and shifted to the westward, but subsequently backed again to between S. and S.W. on all our coasts.

R 1916. 460.—5/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 1, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 25.

Weather fine over the greater part of the country, but heavy rain falling on our S.W. coasts and over France. Rain extending all over southern and central England during day.

Temperature fallen generally, and ranging from 51° at Scilly to 41° at Leith. Not changing much later, and rather low all day.

Wind north-westerly on most of our coasts, but westerly to south-westerly over France and the Channel, southerly at Prawle Point, and easterly in the S. of Ireland. Blowing a gale over the Bay of Biscay, and strongly in the S.W. Gale at Scilly later.

Sea rough at the entrance to the Channel, at Cape Gris Nez, and Skudesnaes.

Barometer falling in nearly all places; decrease brisk in the S.W., and large depression shown near Scilly. Disturbance travelling eastward, and barometer falling fast in E.

Wednesday, April 26.

Weather unsettled; sleet or rain reported in the N. and E., but fine in the S.W. and W. Cloudy or showery all day, but clearing in the evening.

Temperature fallen generally, and ranging from 49° at Scilly to 38° at Stornoway. Rising a little during day, but maxima hardly reaching 55° in the S. or 40° in the N.

Wind northerly and north-westerly on our coasts, westerly to southerly over France and N. Germany, and easterly in Denmark. Blowing a gale at Aberdeen, and strong in the N. generally. Fresh northerly winds all day.

Sea rough in the N. and N.E., as well as at Scilly and Dover.

Barometer rising over the whole of these Islands, but falling quickly over N. Germany, and depression shown near the Helder. Rising steadily all day, and area of highest pressure shown in the W.

Thursday, April 27.

Weather fine except on our N.W. coasts and over Scandinavia. Rain commencing in the W. later and cloudy or dull weather spreading to all but the south-eastern stations.

Temperature risen slightly, and ranging from 51° at Valencia to 40° at Nairn. Rising briskly later and maxima between 45° and 55°.

Wind backing to S.W. or S. all along our western coasts, but continuing north-westerly over our eastern and southern districts and the North Sea. Rising to a strong breeze from S. at Valencia later.

Sea rough in the S.W. and at Shields.

Barometer falling along our western coasts, rising elsewhere; pressure highest over the Bay of Biscay with the depression over the Skager Rack and fresh one appearing in W. Fall in W. progressing quickly later.

Friday, April 28.

Weather very unsettled, with showers of rain and overcast skies in nearly all places. Very showery, squally, and unsettled all day.

Temperature risen slightly except at Valencia; ranging from 51° at Scilly to 44° in the Shetlands. Rising during day and maxima between 45° and 57°.

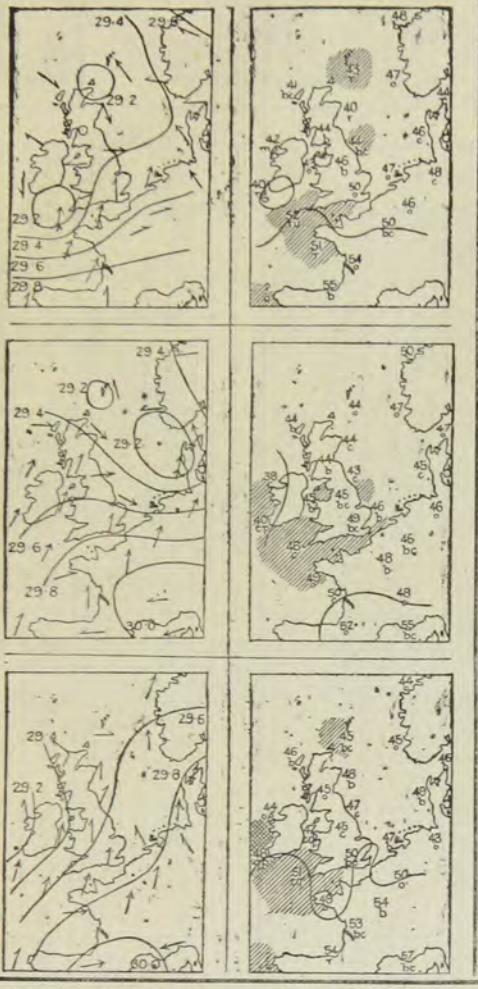
Wind north-westerly in Ireland, westerly over France and our S.W. coasts and southerly in the E. and N.; blowing strongly generally and with the force of a gale in the S.W. Hardly any change later.

Sea rough or high generally.

Barometer recovering briskly at Valencia, but falling fast at all our other stations and well marked depression shown over the Irish Sea. Disturbance moving very little during day, but barometer rising except in the E.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 29.

Weather fine over the E. and central districts of England and S. of Scotland, but dull and unsettled elsewhere, with rain in the S.W. of England and snow in Ireland. Very rough, squally, and showery weather experienced all day over England.

Temperature fallen briskly in the W. and N., risen over England; readings ranging from 52° at Scilly to 41° in the Hebrides. Maxima during day between 45° and 55° generally.

Wind south-westerly and southerly over France and the southern part of the Kingdom, and north-easterly in Ireland, but variable breezes reported elsewhere. Blowing with the force of a gale in the S.W., and very severe south-westerly and westerly gale blowing in the S. all day.

Sea very rough in the Channel.

Barometer rising in the S.E. and E.; falling elsewhere, very quickly in the S.W. Pressure highest over Southern France, and small depression shown in S.W. Disturbance becoming much deeper during day and passing eastward across us.

Sunday, April 30.

Weather fine and bright in nearly all parts of these islands and the N. of France, but cloudy and showery at Valencia. Cloudy, showery weather spreading to all our western coasts later, but remaining fine on the whole in the E.

Temperature changed irregularly, but fallen in most places; readings ranging from 49° at Dover to 42° at Nairn. Rising briskly in N. later, and maxima uniform between 48° and 61°.

Wind still north-westerly and westerly in the E., but backed to S.W. over Ireland and the S.W. of England. Blowing freshly or strongly. Backing to S.W. generally later, and increasing to a gale at Valencia.

Sea rough in the W. and S.

Barometer rising over Great Britain, but falling elsewhere. Disturbance shown off the S. coast of Norway and fresh depression appearing in S.W. Falling briskly in W. later.

Monday, May 1.

Weather fine in the S.E. of England and E. of Scotland, cloudy or dull elsewhere, with rain in the W. Fine all day in the S.E. and E., and showery in the W.

Temperature risen slightly, and ranging from 52° at Dover to 41° at Donaghadee. Rising slightly, and maxima between 50° and 59°.

Wind between S.W. and S. generally, blowing strongly in the W. and lightly elsewhere. South-westerly winds all day, reaching a gale at Valencia.

Sea rough or high in the S.W. and W.

Barometer falling generally, but rising in the N.E. of Scotland and S. of Scandinavia. Pressure highest in S. France, lowest off the W. of Ireland. Rising except in the N.W. during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	50	34	47·0	38·4	42·7	−1·2	7	0·72	+0·31	*	*
	Stornoway	50	30	46·4	35·1	40·8	−4·8	5	0·59	+0·01	52	30
	Wick	53	31	47·7	36·7	42·2	−2·8	6	0·72	+0·34	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	41	53·3	43·4	48·4	−2·9	7	1·11	+0·71	*	*
	Jersey (Noirmont)	57	41	54·3	43·7	49·0	−2·7	4	0·82	+0·42	58	58

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	53	34	49·9	37·4	43·7	− 2·9	2	0·30	−0·05	*	*
	Aberdeen	55	35	50·4	38·0	44·2	− 2·2	6	0·66	+0·18	32	30
	Leith	55	34	52·6	37·7	45·2	− 2·6	4	0·34	−0·01	*	*
2. ENGLAND, N.E.	Alnwick Castle	53	32	48·0	37·4	42·7	− 4·4	5	0·95	?	*	*
	Shields	54	35	49·4	38·9	44·2	− 3·6	6	0·85	+0·45	*	*
	Durham	56	35	51·7	36·6	44·2	− 3·1	7	1·05	+0·60	40	38
	Scarborough ⚓	55	38	50·3	40·4	45·4	− 2·5	5	2·02	+1·62	*	*
	York	56	35	52·7	38·7	46·2	− 2·7	5	1·37	+0·97	41	39
	Spurn Head	57	36	50·6	40·0	45·3	− 3·2	6	0·72	?	*	*
3. ENGLAND, E.	Hillington ⚓	58	37	54·1	38·5	46·3	− 3·1	6	1·26	+0·88	35	34
	Yarmouth	57	37	52·6	40·3	46·5	− 3·3	7	1·79	+1·38	*	*
	Geldeston	57	36	53·1	39·6	46·4	− 3·5	7	1·76	+1·46	36	35
	Cambridge	58	34	54·4	37·3	45·9	− 4·3	7	1·64	+1·29	41	40
	Rothamsted	57	34	53·1	36·9	45·0	− 4·5	7	2·43	+2·01	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	60	35	55·6	?39·3	?47·5	?− 2·0	5	0·95	+0·57	*	*
	Loughborough	59	34	53·5	39·2	46·4	− 3·2	5	0·97	+0·57	*	*
	Leicester	59	35	54·2	39·9	47·1	− 2·3	7	1·18	+0·88	38	37
	Birmingham (Oscott)	56	35	51·1	38·0	44·6	− 4·7	5	1·11	+0·64	*	*
	Cheadle ⚓	54	32	49·7	36·2	43·0	− 5·2	7	1·81	?	*	*
	Churchstoke ⚓	54	32	49·9	35·3	42·6	− 6·6	5	1·81	?	27	27
	Hereford ⚓	58	35	53·9	37·3	45·6	− 4·6	7	1·62	+1·23	*	*
	Cirencester	57	34	51·9	36·5	44·2	− 5·6	6	1·85	+1·39	43	42
	Oxford	58	36	53·4	39·4	46·4	− 4·0	6	1·49	+1·10	38	37
5. ENGLAND, S.	London†	59	37	55·1	39·4	47·3	− 4·0	6	1·53	+1·14	36	36
	Marlborough ⚓	56	32	52·0	36·8	44·4	− 5·4	6	2·16	+1·68	39	39
	Strathfield Turgiss ⚓	56	33	54·0	36·9	45·5	− 5·1	6	1·92	+1·47	*	*
	Dover	53	38	52·3	40·4	46·4	− 4·8	6	0·88	+0·47	*	*
	Hastings (St. Leonard's)	54	38	52·8	41·7	47·3	− 3·6	6	1·07	+0·66	*	*
	Southampton	58	37	55·1	40·4	47·8	− 3·4	7	1·65	?	46	46
	Hurst Castle	56	39	53·4	42·9	48·2	− 3·3	7	1·60	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	50	32	47·9	37·7	42·8	− 4·7	5	1·08	?	*	*
	Glasgow	54	32	50·2	37·2	43·7	− 3·8	6	0·28	−0·27	33	32
	Ardrossan	51	32	49·4	37·6	43·5	− 4·8	6	0·49	−0·01	*	*
	Silloth (Cumberland)	55	32	51·2	38·6	44·9	− 3·9	3	0·56	+0·16	33	32
	Douglas (Isle of Man)	52	35	49·5	38·7	44·1	− 4·7	6	0·91	+0·49	43	40
7. ENGLAND, N.W.	Barrow-in-Furness	54	37	50·1	40·1	45·1	− 4·3	6	0·65	?	*	*
	Stonyhurst	53	32	50·6	37·4	44·0	− 4·7	5	1·77	+1·22	34	33
	Blackpool ⚓	54	31	50·1	39·1	44·6	− 5·4	6	1·21	+0·86	35	34
	Manchester	55	31	50·6	36·9	43·8	− 5·4	5	1·02	+0·57	*	*
	Liverpool Obsy (Bidston)	55	34	51·1	40·6	45·9	− 3·8	5	1·42	+1·14	*	*
	Llandudno ⚓	53	37	49·3	40·1	44·7	− 5·8	7	1·09	+0·69	28	27
	Holyhead	53	37	48·9	41·3	45·1	− 5·4	6	0·99	+0·64	*	*
8. ENGLAND, S.W.	Pembroke	53	40	50·6	42·4	46·5	− 4·1	7	1·33	+0·85	42	41
	Arlington (N. Devon)	54	35	50·6	37·7	44·2	− 5·7	7	2·24	?	*	*
	Cullompton ⚓	57	33	54·4	37·3	45·9	− 5·0	7	1·70	?	44	44
	Falmouth	55	41	53·3	42·6	48·0	− 2·9	6	1·57	+1·01	51	50
	Plymouth	58	38	55·3	42·0	48·7	− 2·8	7	1·10	+0·61	42	42
	Prawle Point	54	37	52·4	40·0	46·2	− 4·6	6	1·19	?	*	*
9. IRELAND, N.	Londonderry	56	31	51·9	35·3	43·6	− 5·0	7	1·02	+0·51	*	*
	Mullaghmore	54	35	50·9	40·9	45·9	− 3·2	5	0·78	?	*	*
	Markree Castle	54	29	51·4	34·6	43·0	− 6·3	6	0·72	+0·27	?	?
	Brookeborough	53	30	50·8	34·6	42·7	− 6·4	6	0·84	?	*	*
	Armagh	54	33	50·6	37·2	43·9	− 5·3	5	1·02	+0·61	40	38
	Donaghadee	53	32	50·4	36·9	43·7	− 5·9	5	1·00	?	*	*
10. IRELAND, S.	Dublin	55	35	51·1	38·0	44·6	− 5·3	4	0·74	+0·20	36	35
	Parsonstown	55	31	51·1	36·1	43·6	− 6·1	5	1·14	+0·68	46	45
	Waterford	52	31	50·9	36·3	43·6	− 6·8	5	1·56	+1·01	*	*
	Roche's Point	55	33	52·1	38·9	45·5	− 5·1	6	1·52	+0·90	*	*
	Valencia	61	36	53·9	39·1	46·5	− 4·2	7	2·05	+1·27	46	45
	Foynes	53	34	51·1	39·4	45·3	− 4·3	7	1·40	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, MAY 8, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	34	53	40	47	1 below.	5	7	3 more.	33	30
	2. ENGLAND, N.E.	62	32	54	42	48	1 below.	5	11	7 more.	35	33
	3. ENGLAND, E.	68	39	59	44	51	1 above.	6	9	6 more.	29	28
	4. MID. COUNTIES	66	33	60	41	51	0 (average).	4	8	4 more.	49	47
	5. ENGLAND, S.	71	37	61	46	53	1 above.	4	8	3 more.	44	42
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	61	35	54	41	48	2 below.	5	7	1 more.	45	42
	7. ENGLAND, N.W.	61	34	56	42	49	2 below.	3	4	0 (average).	52	49
	8. ENGLAND, S.W.	64	35	58	43	50	2 above.	2	3	2 less.	54	52
	9. IRELAND, N.	61	31	56	39	47	3 below.	6	9	6 more.	49	46
	10. IRELAND, S.	61	34	57	41	49	2 below.	3	3	3 less.	61	58

General Remarks.

Weather, though finer in the S.W. than elsewhere, has been generally cloudy, rainy, and unsettled. Thunderstorms occurred in many parts of the Kingdom on the 3rd and again at several stations towards the close of the period.

Temperature has been slightly above the mean in the E., S., and S.W. of England, and about the average in the "Midland Counties", but in all other places it was a little below. The maxima over southern England were rather high, a reading of 71° being recorded in London and of 70° at Strathfield Turgiss on the 3rd. In other districts the maxima varied between 59° and 68°. The minima were as low as 31° in "Ireland, N." and between 32° and 35° in most other districts; but in "England, E." the thermometer did not fall below 39° and in "England, S." 37°.

Rainfall has been equal to the mean in "England, N.W." and rather less in "Ireland, S." and "England, S.W.", but in all other districts the fall was in excess of the average.

Bright sunshine shows a slight increase in most places, the percentages ranging from 28 in "England, N.E.", to 58 in "Ireland, S."

Depressions observed.—Pressure over our Islands has been more uniform than of late and the changes comparatively slight. Numerous small depressions have travelled slowly in an easterly direction, causing the wind, which was generally light or moderate, to be very variable in direction.

R 2013. 460.—5/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 8, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, May 2.

Weather dull and rainy on our extreme N.W. coasts and cloudy in Scandinavia, but fine and bright generally. Showers occurring except in the E. during the day.

Temperature fallen over France, risen elsewhere; readings moderately uniform, ranging from 54° at Scilly to 44° at Stornoway. Rising briskly in the E. during day, and maxima varying between 49° and 61°.

Wind easterly and south-easterly over France and westerly over Ireland, but southerly on nearly all the coasts of Great Britain. Blowing freshly generally. Southerly to south-westerly winds holding steadily all day.

Sea rough at some south-western and northern stations.

Barometer rising generally—briskly in the S.W. Small anticyclone shown over central France and well marked depression shown in the N.W. Pressure slowly increasing all day.

Wednesday, May 3.

Weather fine on our N. and N.E. coasts as well as over N. Germany and the E. of France, dull elsewhere, with rain in several places. Cloudy at most stations later and rain falling generally.

Temperature changes irregular, but generally upward; readings ranging from 55° in the S. to 45° at Mullaghmore. Rising briskly during day, and thermometer reaching 71° in London and 68° at Cambridge.

Wind varying between S. and E. over the whole of western Europe and blowing moderately in most places. Becoming very variable in direction later and lighter in force.

Sea slight round our coasts, rough at Skudesnaes.

Barometer rising in our northern districts, falling elsewhere; pressure highest over the S. of Scandinavia and lowest off our S.W. coasts. Decreasing somewhat during day, and small subsidiary depression appearing over England.

Thursday, May 4.

Weather unsettled; cloudy or dull at the majority of stations, with mist in several places and rain over the S.E. of England. Fine later in the N. and W., but dull and rainy in the E.

Temperature risen a little in W. Ireland, fallen elsewhere; readings ranging from 55° at Dover to 43° at Parsonstown. Rising somewhat later and maxima uniform between 52° and 62°.

Wind light or moderate from N.W. and N. over these Islands, light or strong from W. over France, and from S.E. in Scandinavia. Northerly breezes prevailing all day over these Islands.

Sea slight except round the Shetlands.

Barometer rising slowly over our western districts, falling rather briskly elsewhere. Large area of low pressure lying over these Islands and the Netherlands. Rising slightly during day.

Friday, May 5.

Weather fine over nearly the whole of these Islands, but dull and rainy along our E. coast and in the W. of France and W. of Norway. Little change during day, but rain commencing at Jersey and Hurst Castle later.

Temperature fallen generally; readings ranging from 52° in London to 45° at Nairn; rising steadily during day and thermometer rising to 65° in London and 63° at Oxford.

Wind light and variable over most of our districts and France, but moderate from N.W. on our N.E. coasts and on the eastern shores of the North Sea. Shifting to S. in the N. later.

Sea moderate or smooth.

Barometer falling over Scandinavia and Denmark, rising steadily elsewhere. Pressure highest over France with depression over Norway and the Skager Rack. Increasing slightly all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, May 6.

Weather fine over Ireland, the western and central parts of England, and the S. of France; cloudy or dull elsewhere, with rain in the W. of Scotland. Fair during greater part of day, but some rain in N.

Temperature risen over France and our S.E. coasts, fallen generally; ranging from 54° at Prawle Point to 41° in the Shetlands. Maxima 64° in London and about 60° at our inland stations.

Wind very light and variable over the whole of western Europe, but westerly breezes springing up during day and blowing freshly in W.

Sea rough at the Scaw.

Barometer rising at the Continental and our south-western stations, falling elsewhere. Readings uniform over western Europe, but depression shown over Sweden. Rising slowly all day.

Sunday, May 7.

Weather fine over England and the S. of Ireland, cloudy or dull elsewhere; showers reported from Mullaghmore. Thunder showers occurring in the N.E. later, but fine generally over England.

Temperature risen slightly, and readings ranging from 58° at Prawle Point to 42° in the Shetlands. Rising briskly in the S.E. later, and thermometer reaching 65° in London and at Cambridge.

Wind exceedingly variable and light or moderate in force over these islands and France, but strong westerly winds prevailing in S. Norway. Variable breezes blowing all day.

Sea moderate to smooth.

Barometer falling over France and parts of Scandinavia, rising elsewhere. Pressure very uniform, but rather lower over Norway than elsewhere. Changes slight and irregular during day.

Monday, May 8.

Weather fine in most places, but dull and wet on our N.E. coasts and in N. Germany. Fair during the day in nearly all districts.

Temperature fallen, and readings ranging from 55° at Valencia and Dover to 39° at Sumburgh Head. The maxima in afternoon between 49° and 61°.

Wind easterly in Scotland, but northerly generally and light or moderate in force. Strong northerly winds blowing in the S.E. in the evening.

Sea moderate or smooth, except at Corunna.

Barometer rising everywhere, the change being greatest in the N.W. Pressure highest at our south-western stations and lowest in the S.E. of France. Increasing steadily during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	52	35	47·3	40·6	44·0	−0·8	3	0·47	+0·08	*	*
	Stornoway	52	34	50·0	39·3	44·7	−1·7	6	0·47	−0·11	41	37
	Wick	56	33	51·9	38·4	45·2	−0·7	2	0·41	+0·09	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	45	56·1	48·1	52·1	−0·2	1	0·03	−0·30	*	*
	Jersey (Noirmont)	64	45	58·1	47·9	53·0	+0·2	3	0·34	−0·06	50	49

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	58	34	53·4	39·7	46·6	− 0·9	4	0·45	+0·10	*	*
	Aberdeen	56	35	51·7	39·6	45·7	− 1·7	4	0·42	−0·03	33	30
	Leith	59	37	53·9	40·4	47·2	− 1·5	7	1·27	+0·89	*	*
2. ENGLAND, N.E.	Alnwick Castle	56	32	51·6	40·3	46·0	− 2·1	6	2·12	?	*	*
	Shields	57	38	53·1	40·4	46·8	− 2·0	5	1·31	+0·91	*	*
	Durham	60	35	55·1	39·0	47·1	− 1·2	6	1·25	+0·81	?32	?30
	Scarborough ℔	59	42	54·1	44·3	49·2	+ 0·3	4	0·44	+0·04	*	*
	York	62	38	59·0	42·3	50·7	+ 0·6	2	0·39	−0·01	38	36
	Spurn Head	59	43	52·4	45·1	48·8	− 0·7	5	1·10	?	*	*
3. ENGLAND, E.	Hillington ℔	67	40	59·8	43·1	51·5	+ 1·5	5	0·87	+0·48	28	27
	Yarmouth	55	41	53·4	45·9	49·7	− 1·1	7	1·25	+0·85	*	*
	Geldeston	63	42	58·3	45·1	51·7	+ 0·9	6	0·84	+0·54	29	28
	Cambridge ℔	68	41	61·3	43·0	52·2	+ 1·1	5	0·62	+0·24	31	30
	Rothamsted	66	39	60·4	43·0	51·7	+ 0·8	6	1·04	+0·63	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	64	36	60·9	40·7	50·8	+ 0·2	3	0·85	+0·47	*	*
	Loughborough	64	40	61·3	42·7	52·0	+ 1·4	4	0·81	+0·40	*	*
	Leicester	66	42	61·8	43·6	52·7	+ 2·2	4	1·46	+1·12	36	34
	Birmingham (Oscott)										*	*
	Cheadle ℔	60	39	57·6	40·6	49·1	− 0·1	3	1·29	?	*	*
	Churchstoke ℔	60	33	58·7	37·4	48·1	− 2·1	3	0·52	?	55	52
	Hereford ℔	64	37	61·5	39·9	50·7	+ 0·5	5	0·63	+0·23	*	*
	Cirencester	65	33	60·1	41·8	51·0	− 0·8	3	0·82	+0·36	56	54
	Oxford	66	40	61·1	44·6	52·9	+ 1·5	4	0·31	−0·09	50	48
5. ENGLAND, S.	London†	71	42	63·4	45·9	54·7	+ 2·4	3	0·58	+0·19	35	34
	Marlborough ℔	64	37	60·9	42·5	51·7	+ 1·0	5	1·11	+0·64	52	50
	Strathfield Turgiss ℔	70	39	64·4	42·8	53·6	+ 2·0	2	0·56	+0·16	*	*
	Dover	64	46	57·7	48·9	53·3	+ 1·2	5	0·69	+0·28	*	*
	Hastings (St. Leonard's)	66	46	58·3	48·2	53·3	+ 1·5	3	1·13	+0·73	*	*
	Southampton	64	42	61·7	44·7	53·2	+ 1·1	5	0·72	?	44	42
	Hurst Castle	61	49	58·3	46·0	52·2	− 0·3	3	0·46	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	56	35	53·0	40·1	46·6	− 1·7	5	1·65	?	*	*
	Glasgow	57	38	53·4	41·5	47·5	− 0·9	7	0·86	+0·41	22	20
	Ardrossan	56	39	53·1	41·9	47·5	− 1·6	7	0·69	+0·10	*	*
	Silloth (Cumberland)	61	35	55·9	40·2	48·1	− 1·6	4	0·38	−0·02	49	46
	Douglas (Isle of Man)	56	39	54·6	41·1	47·9	− 1·6	4	0·17	−0·03	65	61
7. ENGLAND, N.W.	Barrow-in-Furness	57	42	55·1	44·6	49·9	− 0·4	3	0·30	?	*	*
	Stonyhurst	58	37	56·1	40·0	48·1	− 1·6	2	0·55	+0·11	48	45
	Blackpool ℔	58	35	53·8	39·5	46·7	− 4·1	2	0·19	−0·19	56	53
	Manchester	61	38	57·3	40·4	48·9	− 1·3	3	0·68	+0·26	*	*
	Liverpool Obsy (Bidston)	59	42	56·1	43·9	50·0	− 0·9	2	0·18	−0·12	*	*
	Llandudno ℔	57	34	54·7	42·1	48·4	− 2·9	3	0·15	−0·24	51	49
	Holyhead	60	41	55·3	45·3	50·3	− 0·8	3	0·65	+0·30	*	*
8. ENGLAND, S.W.	Pembroke	54	39	53·1	44·0	48·6	− 3·0	1*	0·02	−0·37	67	64
	Arlington (N. Devon)	58	36	56·0	39·4	47·7	− 3·2	3	0·47	?	*	*
	Cullompton ℔	65	35	61·5	39·3	50·4	− 1·4	3	0·15	?	48	46
	Falmouth	59	44	56·1	45·7	50·9	− 1·0	3	0·83	+0·27	49	47
	Plymouth	64	40	60·9	45·0	53·0	+ 0·5	3	0·15	−0·34	52	50
	Prawle Point	61	42	57·1	44·3	50·7	− 1·0	1	0·20	?	*	*
9. IRELAND, N.	Londonderry	61	33	57·1	37·2	47·2	− 2·3	6	1·09	+0·71	*	*
	Mullaghmore	56	42	52·3	44·9	48·6	− 1·1	6	1·37	?	*	*
	Markree Castle	59	31	54·2	35·4	44·8	− 5·4	6	0·80	+0·39	?	?
	Brookeborough	60	32	55·2	35·9	45·6	− 4·4	5	1·09	?	*	*
	Armagh	59	36	56·4	40·5	48·5	− 1·6	6	1·02	+0·62	49	46
	Donaghadee	57	35	54·6	40·9	47·8	− 2·7	6	0·62	?	*	*
10. IRELAND, S.	Dublin	59	41	57·1	43·3	50·2	− 0·5	5	0·30	−0·21	52	50
	Parsonstown	60	34	57·9	38·6	48·3	− 2·3	3	0·43	−0·06	60	57
	Waterford	60	36	56·9	40·1	48·5	− 2·8	5	0·12	−0·43	*	*
	Roche's Point	61	39	58·4	42·4	50·4	− 1·3	2	0·13	−0·55	*	*
	Valencia	57	36	56·0	41·1	48·6	− 2·8	2	0·16	−0·54	71	68
	Poynes	56	37	54·9	40·5	47·7	− 2·6	1	0·45	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, MAY 15, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Hea
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	62	35	55	40	48	1 below.	3	4	1 less.	49	44
	2. ENGLAND, N.E.	66	31	56	41	48	2 below.	1	less than ½	4 less.	62	57
	3. ENGLAND, E.	69	35	59	41	50	2 below.	2	less than ½	4 less.	62	58
	4. MID. COUNTIES	70	31	60	41	51	1 below.	1	less than ½	4 less.	60	55
	5. ENGLAND, S.	71	33	61	44	53	0 (average).	1	less than ½	4 less.	56	53
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	64	36	56	41	48	2 below.	2	5	2 less.	65	59
	7. ENGLAND, N.W.	66	35	57	42	50	2 below.	2	4	0 (average).	69	64
	8. ENGLAND, S.W.	67	36	59	46	52	0 (average).	1	less than ½	5 less.	56	53
	9. IRELAND, N.	69	33	59	42	50	1 below	2	2	3 less.	68	62
	10. IRELAND, S.	67	36	61	44	52	0 (average).	2	less than ½	5 less.	63	58

General Remarks.

Weather has been generally dry and fine, though some thick fog was experienced during the earlier part of the period at many of our western stations.

Temperature has been about equal to the mean in the S. and S.W. of England and S. of Ireland, but one or two degrees below it in all other places. The maxima, which were registered on the 11th, were as high as 71° in "England, S." and 70° in the "Mid and Counties", while on the 9th the thermometer fell as low as 31° at Durham and Cirencester, and to between 33° and 36° in most other places.

Rainfall has been equal to the mean in "England, N.W.", but considerably less elsewhere.

Bright sunshine has been more than that recorded for some weeks past, the percentages ranging from 44 in "Scotland, E." to 64 in "England, N.W." and 62 in "Ireland, N."

Depressions observed.—During the greater part of this period a large area of high pressure held steadily over our southern coasts and France, while some small, shallow depressions moved from W. to E. over, or to the northward of, Scotland. The wind was consequently from the westward or north-westward, and generally light or moderate in force; in Scotland, however, it reached the force of a gale for a brief time on the 12th. By 8 A.M. on the 13th, the high pressure area had travelled northwards, and during the remainder of the period moderate easterly or north-easterly winds prevailed on all our coasts.

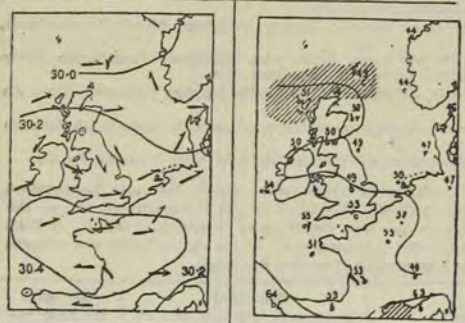
R 2103. 460.—5/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 15, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, May 9.

Weather fine and bright over the greater part of France and Scandinavia and in the S.E. of England; cloudy or dull elsewhere, with rain on our N.W. coasts and snow at Bodö. Dull and wet except in the extreme S.E. all day, and snow and hail falling at Cambridge.

Temperature fallen a few degrees, and ranging from 55° at Scilly to 43° in the Shetlands. Not rising much during day, and maxima varying between 50° and 60°.

Wind south-westerly and southerly on most of our coasts, and northerly at the French stations; very light in force in the S. and S.E. of England, but increasing in force in our western and northern districts, and reaching a gale at Stornoway.

Sea rather rough in the extreme N. and at Valencia.

Barometer falling briskly in the N., and well marked depression shown in N.W., but rising elsewhere, and large anticyclone shown in the S. Disturbance passing away northward later, but barometer falling except at Stornoway.

Wednesday, May 10.

Weather fine generally, but dull in the S. of Ireland and S. of England, and dull or rainy over Norway and Denmark. Rain falling at Stornoway later, but weather fine generally.

Temperature risen several degrees in most districts, and ranging from 56° at Cambridge to 48° in the Shetlands. Rising briskly during day, and maxima between 65° and 68° recorded over central England.

Wind westerly on most of our E. coasts, and easterly in France; light or moderate generally, but blowing freshly in the N. Little change later, strong winds continuing in N. Scotland.

Sea rough round the Hebrides and Shetlands.

Barometer falling over the S.E. of England and N. Germany, but rising elsewhere. Depression shown in the N., and anticyclone still holding in the S. Hardly any change during day.

Thursday, May 11.

Weather fine in the N.E. of Scotland, the N. of England, and the greater part of France, cloudy or dull elsewhere, with fog or mist in some places and rain in the Shetlands. Unsettled and showery in the N.

Temperature risen except extreme N., and ranging from 56° in the S. to 47° in the Shetlands. Maxima during day 70° in London and 69° at Cambridge, but only 49° in the Hebrides.

Wind between W. and S.W. over these Islands and Scandinavia, easterly in France; generally moderate or light in force, but blowing strongly at some northern stations. Rising in the N. later.

Sea rough round the Hebrides and Shetlands.

Barometer falling generally, large anticyclone shown in the S., and large shallow depression in the N. Falling all day and well marked depression forming over Scotland at 6 o'clock.

Friday, May 12.

Weather cloudy and unsettled over Scandinavia, and snow falling in the Shetlands, but fine and bright elsewhere. Very fine all day, the only rain being slight showers in the N.

Temperature risen over France and our S. coast, fallen elsewhere; readings ranging from 58° at Dover to 43° at Wick. Not rising much during day, highest readings being 65° in London and 64° at Loughboro'.

Wind blowing a gale from N.W. in Scotland and over the North Sea, and moderately from the same quarter at our other northern stations, but drawing into N. on our S. coast and into E. over France. Little change later, but wind falling lighter.

Sea rough on our northern coasts and off the S. of Norway.

Barometer falling fast in Scandinavia, but rising elsewhere. Pressure highest over Ireland, with important disturbance over Scandinavia and shallow depression over W. France. Increasing all day except in S.W.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.
		Saturday, May 13. *Weather* dull on our N.W. coasts and dull and rainy over Scandinavia, but very fine and bright elsewhere. Fine, bright, and dry all day. *Temperature* fallen somewhat except in Ireland and the N. of Scotland; readings ranging from 60° at Valencia to 48° at Donaghadee. Rising during day, and maxima in central, southern, and south-western districts between 60° and 66°. *Wind* north-westerly on our E. coast and on the eastern shores of the North Sea, blowing a gale in Norway and Denmark, but moderate to fresh from E. or S.E. in the S. and W. No change of importance later. *Sea* rough at Scilly, Skudesnaes, and the Scaw. *Barometer* falling on our S.W. coasts, rising elsewhere. Large anticyclone lying over Great Britain. Falling all day except in the N. and N.E.
		Sunday, May 14. *Weather* cloudy or dull in E. Scotland and cloudy with rain in Norway, but very fine and bright elsewhere. Fine, dry, and cool all day. *Temperature* fallen again except in the W., and readings ranging from 60° at Valencia to 42° in the Shetlands. Rather low all day, and maxima varying between 47° and 64°. *Wind* northerly on both shores of the North Sea, and easterly over our southern, central, and western districts. Blowing strongly in the S.W., moderately or lightly elsewhere. North-easterly and easterly winds blowing all day. *Sea* rough in S.W. and N.E. *Barometer* rising except in Ireland, N. Germany, and the S.E. of England. An anticyclone shown in the N., and low pressures in S. France and S. Sweden. Little change during day.
		Monday, May 15. *Weather* cloudy at several eastern and central stations, but fine and bright generally. Slight showers in the S.E. of England at noon, but weather fine and dry on the whole. *Temperature* fallen a few degrees everywhere, and readings ranging from 55° at Valencia to 44° on our N.E. coasts. Rather low all day, and thermometer reaching 60° at Valencia only. *Wind* north-easterly over Scandinavia, the North Sea, and over E. coast, but drawing into E. over France and our southern and western districts. Blowing rather freshly. Little change later. *Sea* rough on our east coast, at Mullaghmore, and Toulon. *Barometer* falling at our eastern, central, and south-eastern stations, rising elsewhere. Large area of high pressure shown in the N. with low readings over the Gulf of Lyons. Scarcely any change during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
Scotland, N.	Sumburgh Head	53	35	49·0	38·4	43·7	−2·0	5	0·38	+0·07	*	*
	Stornoway	54	38	51·9	40·7	46·3	−0·9	4	0·67	+0·10	62	55
	Wick	58	38	52·9	39·9	46·4	−0·3	5	0·68	+0·37	*	*
Channel Islands	Scilly (St. Mary's)	62	47	57·3	50·3	53·8	+0·6	1	0·01	−0·27	*	*
	Jersey (Noirmont)	65	41	59·1	47·1	53·1	−0·8	6	—	−0·42	70	66

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	61	35	53·9	40·3	47·1	− 1·3	4	0·52	+0·15	*	*
	Aberdeen	61	36	55·3	39·6	47·5	− 0·8	2	0·49	+0·04	49	44
	Leith	62	35	56·9	40·1	48·5	− 1·1	2	0·07	−0·42	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	36	53·0	42·0	47·5	− 1·6	1	0·01	?	*	*
	Shields	65	37	55·0	40·1	47·6	− 2·2	1	0·02	−0·38	*	*
	Durham	66	31	56·5	36·9	46·7	− 2·6	1	0·03	−0·39	58	53
	Scarborough ¶	65	37	55·6	42·8	49·2	− 0·8	2	0·07	−0·33	*	*
	York	66	34	59·9	39·1	49·5	− 1·6	2	0·11	−0·28	66	61
	Spurn Head	63	40	54·9	44·1	49·5	− 1·0	1	0·01	?	*	*
3. ENGLAND, E.	Hillington ¶	66	36	59·3	40·3	49·8	− 1·1	3	0·04	−0·36	57	53
	Yarmouth	61	40	56·0	44·1	50·1	− 1·7	1	0·04	−0·36	*	*
	Geldeston	66	38	58·5	41·6	50·1	− 1·7	1	0·02	−0·36	65	61
	Cambridge	69	35	61·7	40·7	51·2	− 0·9	1	0·01	−0·38	65	61
	Rothamsted	67	35	60·0	40·0	50·0	− 2·1	2	0·03	−0·37	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	68	32	61·9	38·6	50·3	− 1·3	1	0·03	−0·34	*	*
	Loughborough	68	34	61·7	40·0	50·9	− 0·7	0	—	−0·44	*	*
	Leicester	67	36	62·0	41·6	51·8	+ 0·3	1	0·01	−0·37	59	55
	Birmingham (Oscott)	66	36	58·9	41·2	50·1	− 1·2	1	0·01	−0·49	*	*
	Cheadle ¶	64	36	57·8	40·1	49·0	− 1·2	1	0·03	?	*	*
	Churchstoke ¶	65	34	56·9	42·1	49·5	− 1·6	1	0·04	?	62	57
	Hereford ¶	70	35	62·3	43·2	52·8	+ 0·6	0	—	−0·42	*	*
	Cirencester	67	31	60·1	42·1	51·1	− 0·7	0	—	−0·48	60	56
	Oxford	67	38	62·0	43·9	53·0	+ 0·6	0	—	−0·40	57	53
5. ENGLAND, S.	London†	70	38	63·3	43·6	53·5	+ 0·1	0	—	−0·40	60	57
	Marlborough ¶	67	33	61·4	42·9	52·2	+ 0·5	0	—	−0·48	54	51
	Strathfield Turgiss ¶	71	38	65·4	42·9	54·2	+ 1·6	0	—	−0·35	*	*
	Dover	61	43	56·4	46·0	51·2	− 1·8	3	0·16	−0·29	*	*
	Hastings (St. Leonard's)	63	40	58·7	44·6	51·7	− 1·0	3	0·02	−0·37	*	*
	Southampton	68	38	64·0	44·0	53·5	+ 0·4	0	—	?	53	50
	Hurst Castle	63	38	59·3	44·6	52·0	− 1·5	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	63	40	55·7	42·0	48·9	− 0·2	3	1·27	?	*	*
	Glasgow	60	37	55·6	40·2	47·9	− 1·4	3	0·20	−0·37	58	52
	Ardrossan	59	36	54·6	41·0	47·8	− 2·2	2	0·13	−0·37	*	*
	Silloth (Cumberland)	64	37	58·0	40·0	49·0	− 1·7	2	0·21	−0·19	66	60
	Douglas (Isle of Man)	58	36	55·4	41·0	48·2	− 2·3	2	0·47	+0·07	71	65
7. ENGLAND, N.W.	Barrow-in-Furness	61	39	56·6	43·1	49·9	− 1·3	2	0·40	?	*	*
	Stonyhurst	65	36	57·6	39·7	48·7	− 1·9	2	0·81	+0·27	68	62
	Blackpool ¶	61	35	55·8	40·4	48·1	− 3·6	2	0·46	+0·07	66	61
	Manchester	65	36	56·8	40·0	48·4	− 2·8	2	0·44	+0·04	*	*
	Liverpool Obsy (Bidston)	66	41	58·1	44·6	51·4	− 0·4	2	0·21	−0·10	*	*
	Llandudno ¶	64	38	56·4	43·3	49·9	− 2·2	2	0·13	−0·25	74	69
	Holyhead	60	41	56·6	44·6	50·6	− 1·5	2	0·34	−0·01	*	*
8. ENGLAND, S.W.	Pembroke	61	43	55·7	47·1	51·4	− 1·1	2	0·02	−0·47	56	52
	Arlington (N. Devon)	65	37	58·6	41·7	50·2	− 1·6	3	0·17	?	*	*
	Cullompton ¶	67	36	62·5	42·4	52·5	− 0·3	0	—	?	53	50
	Falmouth	61	45	57·4	49·2	53·3	+ 0·5	0	—	−0·57	56	53
	Plymouth	65	41	61·9	47·1	54·5	+ 1·0	0	—	−0·46	60	55
	Prawle Point	63	42	56·4	46·7	51·6	− 1·1	0	—	?	*	*
9. IRELAND, N.	Londonderry	69	34	62·3	39·3	50·8	+ 0·5	2	0·15	−0·30	*	*
	Mullaghmore	64	47	58·7	48·7	53·7	+ 3·0	2	0·25	?	*	*
	Markree Castle	65	33	59·2	39·3	49·3	− 1·6	2	0·10	−0·45	64	59
	Brookeborough	63	35	59·4	38·8	49·1	− 1·8	2	0·15	?	*	*
	Armagh	61	38	57·8	40·6	49·2	− 1·8	2	0·14	−0·22	71	65
	Donaghadee	59	37	55·9	42·0	49·0	− 2·3	2	0·18	?	*	*
10. IRELAND, S.	Dublin	67	41	59·1	44·5	51·8	+ 0·3	2	0·03	−0·46	69	64
	Parsonstown	65	36	60·6	40·1	50·4	− 1·2	2	0·09	−0·43	61	56
	Waterford	61	42	59·6	45·6	52·6	+ 0·3	1	0·01	−0·53	*	*
	Foche's Point	62	40	60·6	44·9	52·8	0·0	0	—	−0·70	*	*
	Valencia	65	42	59·9	49·1	54·5	+ 2·4	3	0·10	−0·55	58	54
	Foynes	66	37	63·1	38·5	50·8	− 0·3	0	—	?	*	*

Stations marked ¶ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, MAY 22, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	76	33	57	40	48	1 below.	0	—	4 less.	75	65
	2. ENGLAND, N.E.	71	30	57	41	49	2 below.	0	—	4 less.	81	72
	3. ENGLAND, E.	73	31	61	40	51	2 below.	1	1	3 less.	87	79
	4. MID. COUNTIES	73	30	64	40	52	1 below.	1	2	3 less.	69	62
	5. ENGLAND, S.	74	33	63	44	53	1 below.	1	less than ½	4 less.	75	68
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	72	33	64	43	54	3 above.	1	less than ½	5 less.	81	72
	7. ENGLAND, N.W.	71	31	63	43	53	0 (average).	1	1	3 less.	80	72
	8. ENGLAND, S.W.	66	35	60	45	52	1 below.	2	2	3 less.	72	66
	9. IRELAND, N.	72	33	64	44	54	2 above.	2	2	3 less.	84	75
	10. IRELAND, S.	71	34	62	45	53	0 (average).	2	3	3 less.	76	68

General Remarks.

Weather was exceedingly fine and dry during the greater part of the week, but after Sunday the 21st it became cloudy and unsettled. On the 22nd thunderstorms were experienced over the inland parts of England and Ireland.

Temperature has been above the mean in "Scotland, W." and "Ireland, N." but a little below it in nearly all other districts The maxima, which slightly exceeded 70° in most places, but reached 76° at Nairn, were registered on the 18th in the northern parts of the country, and on the 21st or 22nd in most other districts. The minima occurred during the early part of the period, and on the morning of the 16th or 17th the sheltered thermometer fell to freezing point or below it at York, Durham, Hillington, Bawtry, Cheadle, Churchstoke, and Blackpool, while ground frosts were reported from many other places.

Rainfall has been less than the mean in all districts. In "Scotland, E." and "England, N.E." there has been none at all.

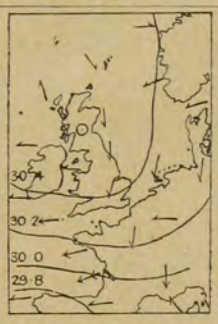
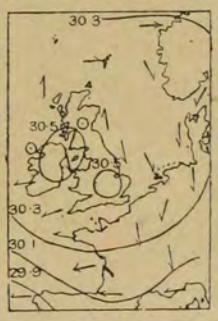
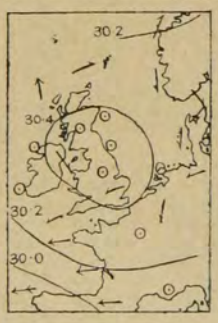
Bright sunshine has been very general, the percentages ranging from 62 in the "Midland Counties" to 79 in "England, E." At York and Geldeston the number of hours exceeded 80 per cent. of the possible duration.

Depressions observed.—During the first half of the week an anticyclone covered nearly the whole Kingdom, and the winds were exceedingly light and variable, except in the extreme S., where they were easterly. On Friday the 19th, the anticyclone began to move away towards Scandinavia, and decided easterly or south-easterly winds spread over the country, but no definite depression made its appearance until Sunday, when disturbances commenced to advance towards our S.W. coasts. On Monday the distribution of pressure was becoming somewhat irregular.

R 2182. 460.—5/82. Wt. 233. E. & S

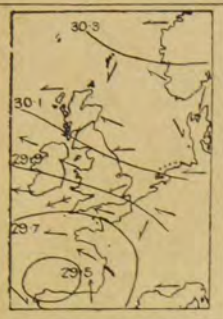
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 22, 1882.

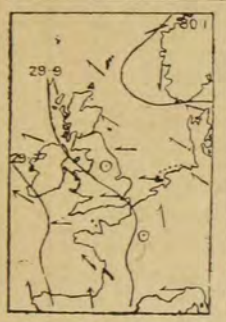
Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.
		**Tuesday, May 16.** *Weather* dull in the N. of Scandinavia, exceedingly fine and bright in nearly all parts of western Europe. Very fine generally all day, but slight showers occurring in the S.E. *Temperature* changed very little, but risen at most of our eastern stations; readings ranging from 54° at Valencia to 44° at Nairn. Maxima rather low on our E. coasts, but between 55° and 63° elsewhere. *Wind* moderate to fresh from N. over Scotland, the countries to the eastward of the North Sea, and the greater part of England, but fresh from E. over France, the Channel, and Ireland. Little change later. *Sea* rough at the mouth of the Channel. *Barometer* rising in nearly all places. Large area of high pressure over these Islands, with low readings over N. Spain and over the Baltic. Rising slowly during the day.
		**Wednesday, May 17.** *Weather* again cloudy in parts of Scandinavia and fine and bright elsewhere. Fine, though slightly hazy all day, and no rain falling. *Temperature* fallen in the S.E. of England and S. of France, risen elsewhere; readings ranging from 55° in the S.W. to 46° at York. Maxima higher than on 16th, varying between 55° and 67°. *Wind* still moderate and fresh from E. over the Channel and W. of France, but lighter and more variable elsewhere. Little change during day. *Sea* nearly smooth. *Barometer* rising slightly except on our N. coasts and in Norway. Large anticyclone over these Islands, with low pressures over N. Spain and the N. of Scandinavia. Slight decrease during day.
		**Thursday, May 18.** *Weather* again very fine over the whole of these Islands and their neighbourhood, and cloudy or dull in parts of Norway and Sweden. Fine hazy and dry weather holding all day. *Temperature* risen slightly, and readings ranging from 60° at Aberdeen to 46° at Spurn Head. Maxima again higher, varying between 55° in the S.E. and 70° over central England and Scotland. *Wind* light and variable over the greater part of these Islands, but moderate to strong easterly breezes reported from France and the Channel and a fresh southerly wind at Stornoway. Easterly and south-easterly breezes prevailing during the day. *Sea* rather rough at Scilly, nearly smooth elsewhere. *Barometer* falling slightly, but change very uniform. Anticyclone still shown over these Islands, with low pressures in the extreme N. and extreme S. Falling all day.
		Friday, May 19. *Weather* very fine in nearly all places, but rain reported from Biarritz and from Bodö. Very fine and dry all day. *Temperature* fallen over the central and northern parts of England and the E. of Scotland, risen or changed little elsewhere. Readings ranging from 60° at Ardrossan to 48° at Shields. Rising during day, and maxima varying between 55° at Yarmouth and 76° at Nairn. *Wind* easterly over France and our southern districts, but drawing into S.E., and S. in the S. and W. Moderate or fresh in force. Wind increasing a little in force but not changing in direction later. *Sea* rough at Valencia and Prawle Point. *Barometer* falling except in Sweden, the change being considerable at Valencia. Anticyclone shown over North Sea and depression over N. Spain. Falling steadily all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, May 20.

Weather cloudy or dull in the S. and S.W. of France, but fine and bright elsewhere, though with slight haze in several places. Becoming dull and showery on our S.W. coasts later, but continuing fine generally.

Temperature risen a little in the E. of England, fallen a few degrees elsewhere. Readings ranging from 57° at Valencia to 48° at Leith, and maxima in afternoon varying between 53° at Nairn and 65° in London.

Wind easterly on nearly all coasts, blowing lightly in the N., strongly in the S., and with the force of a gale at Scilly. Fresh or strong breezes blowing all day.

Sea rough on our S.W. coasts and at Yarmouth and Toulon.

Barometer falling except in Scandinavia—quickly over France. Anticyclone lying over the N. of Norway and Sweden and depression over Bay of Biscay. Falling all day.

Sunday, May 21.

Weather cloudy or dull on our S.W. coasts, fine and bright elsewhere. Dull with slight showers during the day in the W., but fine generally. Thunder showers occurring over France.

Temperature risen over France and some of our eastern stations, fallen in most other places. Readings ranging from 57° at Scilly to 46° at Nairn, and maxima in afternoon varying between 69° at Cambridge and 53° at Sumburgh Head.

Wind southerly over France and the Channel, easterly elsewhere; moderate in force generally, but blowing freshly in the W. Little change later.

Sea rough at Mullaghmore and Valencia, moderate to smooth elsewhere.

Barometer rising in France, falling in most other districts. Anticyclone still lying over the N. of Scandinavia with area of low pressure over our S.W. coasts and the Bay of Biscay. Slight rise occurring except in the N.W. during the day.

Monday, May 22.

Weather still fine and bright over the whole of Scotland and the E. and S.E. of England, but dull elsewhere, with rain in Ireland. Fine in the N. and E. all day, but dull, showery, and thundery in the W.

Temperature risen at the majority of stations and ranging from 63° at Dover to 49° at Wick. Rising during day, and maxima between 70° and 75° at our inland and southern stations.

Wind south-easterly and easterly on nearly all coasts, light or moderate generally, but fresh over the Bay of Biscay and at Valencia. Moderate breezes between S. and E. all day.

Sea rough at Valencia.

Barometer falling slowly in nearly all places and quickly in N. Norway. Readings still highest over Scandinavia and lowest off our S.W. coasts, but decrease greater all day over Norway and Sweden than elsewhere.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	58	36	54·9	42·0	48·5	+1·9	1	0·01	−0·29	•	•
	Stornoway	72	37	62·7	41·7	52·2	+4·1	0	—	−0·59	94	80
	Wick	59	32	56·6	38·6	47·6	−0·1	1	0·02	−0·26	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	60	41	58·0	48·3	53·2	−1·0	1	0·03	−0·25	•	•
	Jersey (Noirmont)	67	45	61·1	48·1	54·6	−0·4	1	0·21	−0·20	77	72

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	76	33	54·9	40·6	47·8	− 1·6	0	—	−0·39	*	*
	Aberdeen	63	34	57·6	38·4	48·0	− 1·3	0	—	−0·42	75	65
	Leith	64	37	58·9	40·0	49·5	− 1·1	0	—	−0·39	*	*
2. ENGLAND, N.E.	Alnwick Castle	56	33	53·4	40·0	46·7	− 3·4	0	—	?	*	*
	Shields	57	36	53·4	41·3	47·4	− 3·5	0	—	−0·40	*	*
	Durham	69	30	61·0	37·6	49·3	− 1·0	0	—	−0·41	68	60
	Scarborough ℳ	57	39	54·1	43·8	49·0	− 2·0	0	—	−0·42	*	*
	York	71	32	65·7	38·7	52·2	0·0	1	0·01	−0·39	93	83
	Spurn Head	57	42	53·9	45·6	49·8	− 1·7	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	71	31	63·3	37·9	50·6	− 1·3	0	—	−0·40	85	77
	Yarmouth	58	40	55·0	45·7	50·4	− 2·5	0	—	−0·41	*	*
	Geldeston	65	34	59·2	41·3	50·3	− 2·6	0	—	−0·29	94	85
	Cambridge	73	34	65·6	37·4	51·5	− 1·7	0	—	−0·39	82	75
	Rothamsted	67	33	61·0	38·3	49·7	− 3·5	2	0·43	0·00	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	32	65·7	38·6	52·2	− 0·5	0	—	−0·40	*	*
	Loughborough	71	33	66·1	40·7	53·4	+ 0·7	1	0·19	−0·40	*	*
	Leicester	73	35	66·0	39·6	52·8	+ 0·2	1	0·05	−0·40	69	62
	Birmingham (Oscott)	70	33	63·7	39·5	51·6	− 0·7	2	0·15	−0·37	*	*
	Cheadle ℳ	68	32	62·6	39·6	51·1	− 0·2	2	0·17	?	*	*
	Churchstoke ℳ	67	30	62·3	37·0	49·7	− 2·4	1	0·22	?	61	55
	Hereford ℳ	67	35	63·3	40·1	51·7	− 1·5	1	0·20	−0·22	*	*
	Cirencester	67	35	62·6	40·8	51·7	− 1·1	1	0·32	−0·18	73	66
	Oxford	68	36	63·1	40·1	51·6	− 1·9	1	0·21	−0·19	72	65
5. ENGLAND, S.	London†	74	37	65·6	43·0	54·3	0·0	2	0·05	−0·35	73	67
	Marlborough ℳ	67	34	62·5	39·0	50·8	− 1·9	1	0·03	−0·45	71	65
	Strathfield Turgiss ℳ	72	33	66·5	39·1	52·8	− 0·8	1	0·03	−0·29	*	*
	Dover	66	44	59·7	48·3	54·0	0·0	1	0·01	−0·45	*	*
	Hastings (St. Leonard's)	65	41	60·8	45·8	53·3	− 0·3	1	0·03	−0·32	*	*
	Southampton	68	37	63·6	43·4	53·5	− 0·6	1	0·02	?	80	73
	Hurst Castle	63	40	61·1	46·7	53·9	− 0·5	1	0·04	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	72	38	64·6	45·2	54·9	+ 4·9	0	—	?	*	*
	Glasgow	70	40	64·2	43·1	53·7	+ 3·4	0	—	−0·59	71	62
	Ardrossan	67	40	62·9	43·1	53·0	+ 1·9	0	—	−0·50	*	*
	Silloth (Cumberland)	70	33	66·2	40·0	53·1	+ 1·4	0	—	−0·40	90	89
	Douglas (Isle of Man)	70	36	62·7	43·1	52·9	+ 1·7	1	0·07	−0·32	82	73
7. ENGLAND, N.W.	Barrow-in-Furness	70	38	63·6	44·7	54·2	+ 2·0	1	0·05	?	*	*
	Stonyhurst	69	35	64·1	40·2	52·2	+ 0·6	1	0·01	−0·55	87	78
	Blackpool ℳ	70	31	61·9	38·3	50·1	− 2·6	1	0·01	−0·39	80	71
	Manchester	68	35	63·6	40·1	51·9	− 0·3	1	0·03	−0·37	*	*
	Liverpool Obsy (Bidston)	71	38	63·4	43·9	53·7	+ 0·9	1	0·19	−0·16	*	*
	Llandudno ℳ	65	38	61·0	44·3	52·7	− 0·4	1	0·15	−0·21	73	66
	Holyhead	67	41	61·9	46·0	54·0	+ 1·0	1	0·05	−0·30	*	*
8. ENGLAND, S.W.	Pembroke	62	42	58·4	46·3	52·4	− 1·0	2	0·57	+0·10	67	61
	Arlington (N. Devon)	64	38	61·1	42·7	51·9	− 0·8	1	0·02	?	*	*
	Cullompton ℳ	66	35	63·7	40·5	52·1	− 1·6	1	0·01	?	74	68
	Falmouth	59	44	56·5	48·4	52·5	− 1·2	3	0·27	−0·32	69	64
	Plymouth	66	39	62·0	43·9	53·0	− 1·4	1	0·05	−0·39	78	72
	Prawle Point	60	40	56·9	46·1	51·5	− 2·1	2	0·08	?	*	*
9. IRELAND, N.	Londonderry	72	36	68·3	41·5	54·9	+ 3·7	2	0·28	−0·16	*	*
	Mullaghmore	68	48	62·6	49·7	56·2	+ 4·6	1	0·07	?	*	*
	Markree Castle	70	33	62·5	40·8	51·7	− 0·2	1	0·10	−0·48	78	70
	Brookeborough	72	35	66·1	42·6	54·4	+ 2·5	2	0·18	?	*	*
	Armagh	68	38	62·5	43·7	53·1	+ 1·1	2	0·25	−0·08	90	80
	Donaghadee	63	37	59·4	44·7	52·1	− 0·2	2	0·15	?	*	*
10. IRELAND, S.	Dublin	65	38	60·9	46·4	53·7	+ 1·3	1	0·14	−0·35	80	72
	Parsonstown	71	34	64·3	42·7	53·5	+ 0·9	1	0·41	−0·12	71	64
	Waterford	67	37	61·6	43·0	52·3	− 0·9	3	0·63	+0·11	*	*
	Roche's Point	61	40	59·6	45·3	52·5	− 1·2	2	0·18	−0·53	*	*
	Valencia	67	37	62·0	45·9	54·0	+ 1·1	2	0·09	−0·53	76	69
	Foynes	65	42	62·9	43·4	53·2	+ 1·2	2	0·43	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, MAY 29, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	68	41	63	47	55	4 above.	4	3	1 less.	71	60
	2. ENGLAND, N.E.	69	44	63	49	56	3 above.	5	8	4 more.	54	47
	3. ENGLAND, E.	73	46	66	50	58	3 above.	2	6	2 more.	60	53
	4. MID. COUNTIES	71	42	64	48	56	2 above.	5	12	7 more.	43	39
	5. ENGLAND, S.	73	44	64	52	58	3 above.	4	7	3 more.	45	40
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	69	42	61	48	55	2 above.	4	10	3 more.	49	43
	7. ENGLAND, N.W.	69	42	62	49	56	2 above.	5	9	4 more.	45	40
	8. ENGLAND, S.W.	67	44	60	50	55	0 (average).	6	12	7 more.	41	37
	9. IRELAND, N.	68	37	61	47	54	1 above.	6	9	5 more.	47	41
	10. IRELAND, S.	68	41	60	49	55	1 above.	6	14	8 more.	49	44

General Remarks.

Weather has been generally rather cloudy and unsettled, with several thunderstorms and frequent showers. Towards the latter part of the period, however, the sky became much clearer.

Temperature has been about equal to the mean in "England, S.W.", but elsewhere it was below the average, the excess varying from 1° in Ireland to 4° in "Scotland, E." The thermometer was highest at several stations in the W. of England on the 23rd, but over south-eastern England the maxima were registered on the 28th or 29th, and were as high as 73° at Hillington, Geldeston, and in London. The minima ranged from 37° in "Ireland, N." to 46° in "England, E."

Rainfall has been a little less than the mean in "Scotland, E.", but more in all other districts. Over central and south-western England and in the S. of Ireland the excess was rather large.

Bright sunshine shows a considerable decrease in duration from that recorded last week, the percentages ranging from 37 in "England, S.W." to 53 in "England, N.E." and 60 in "Scotland, E."

Depressions observed.—During the greater part of this period the barometer has been highest over France, while several shallow depressions have travelled in an easterly direction over our north-western coasts. The wind has consequently been generally moderate from the south-westward, but on the 27th a slight gale or strong breeze was experienced on all except our extreme S.E. coasts. At the close of the period the area of high pressure had moved northwards, and an anticyclone had been formed over southern England, the Channel, and the N. of France.

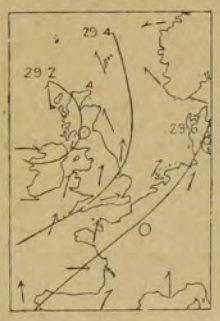
R 2274. 460.—6/82. Wt. 233. E. & S

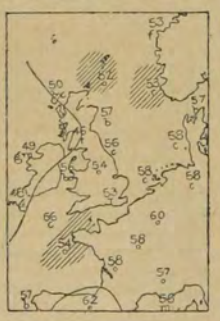
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 29, 1882.

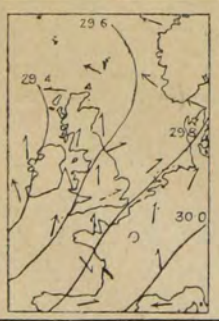
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, May 23.

Weather cloudy or dull except in the N. of Scotland and E. of England, rain falling at Prawle Point and Jersey, and fog reported from several stations. Rain and some thunder occurred during day.

Temperature risen in the S.E., fallen elsewhere; readings ranging from 64° in London to 46° at Leith. Changing irregularly during day, and maxima varying between 51° and 72°.

Wind south-westerly over France, easterly over these Islands, light or moderate in force. South-westerly breezes extending to the S. of England later, but little other change.

Sea moderate or smooth.

Barometer falling everywhere—briskly in the N. and over Scandinavia. Pressure highest over S. France and lowest off our S.W. coasts. Depression passing northward later, and mercury rising over France.

Wednesday, May 24.

Weather fine over France, the Netherlands, and the S.E. coast of England, cloudy or dull generally, with rain in the W. and N.W. Dull and rainy all day in W., but fair in the E., though with occasional showers.

Temperature risen in the E. and S.W., fallen elsewhere. Readings ranging from 58° in the S.E. to 47° in the Shetlands, and maxima varying between 54° and 67°.

Wind westerly in Ireland, between S.W. and S.E. over France and Great Britain; blowing strongly in the S. Little change later, wind continuing fresh and gusty in the S.

Sea rough in the S.W.

Barometer falling everywhere—quickly in N. Pressure highest over France, and depression shown in the N.W. Slight recovery taking place in the S. during day, but barometer still falling everywhere.

Thursday, May 25.

Weather cloudy or dull except on our N.E. coasts, rain falling over the N. of France and S. of England. Rain falling in all districts during day, and weather unsettled.

Temperature fallen a few degrees except in the N.E., and readings ranging from 57° at Aberdeen to 46° at Ardrossan and 48° at Valencia. Not changing much later, and maxima varying between 55° and 66°.

Wind westerly over France, easterly over the Netherlands, and southerly over these Islands. Veering to W. over the S. of England also, and blowing freshly.

Sea rough in the S.W. and N.E.

Barometer rising in most places, but falling in parts of France. Readings highest over S. Sweden, and lowest over Ireland. Small depression crossing these Islands during day.

Friday, May 26.

Weather cloudy except over N. Germany, and rain falling in Scotland and at some western stations. Cloudy during day, and some rain generally, but fine evening.

Temperature risen except in the E. of Scotland, ranging from 60° in London to 50° at Wick. Rising a little later except in the W., and maxima varying between 56° and 67°.

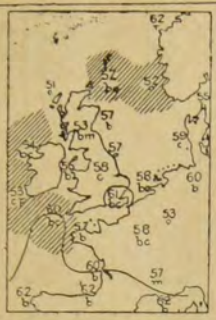
Wind between S. and S.W. on our coasts, and south-easterly in Scandinavia; moderate to fresh in force. Strong southerly winds all day in W.

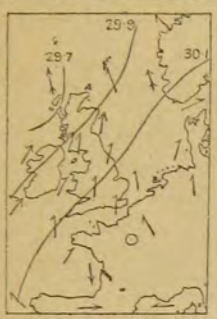
Sea rough in the S.W. and round the Shetlands.

Barometer falling slightly in W. Ireland, rising elsewhere. Pressure equally high in Lapland and in S. France, and low over Ireland. Increasing in most places later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, May 27.

Weather fine and bright in nearly all districts, but cloudy in a few places and showery at Valencia. Fine generally all day, but slight showers occurred in some places.

Temperature fallen slightly at Valencia and Stornoway, risen elsewhere; ranging from 62° at Dover to 51° in the Hebrides. Maxima varying between 56° and 68°.

Wind southerly on all our coasts, blowing freshly generally and strongly in the W. and N. Very little change later.

Sea rough in the W. and S.W. as well as at Skudesnaes and Sumburgh Head.

Barometer rising everywhere, but distribution little altered, readings being highest in the S. of France and lowest off the Irish Coast. Rising all day.

Sunday, May 28.

Weather fine in nearly all places, but sky overcast in Norway and sharp thunderstorm in progress in W. France. Fine generally all day, but showers in a few places.

Temperature risen slightly in most districts, and ranging from 63° at Dover to 53° at Stornoway. Maxima between 55° and 71°.

Wind southerly and south-westerly in all our districts, blowing strongly in the W. and N., but lightly in the S.E. No change later.

Sea rough in the S.W., W., and N.

Barometer rising in all places, highest over the N. of France and N. Germany, with slight depression near the Hebrides. Rising slowly all day except in the S.E.

Monday, May 29.

Weather again thundery and wet in the W. of France, but fine and bright in nearly all other places. Slight showers falling in the N.W. later; fine elsewhere.

Temperature fallen slightly or remained unchanged, ranging from 63° at Yarmouth to 53° at Sumburgh Head. Rising slowly later, and maxima between 73° and 57°.

Wind easterly over France, south-westerly and westerly on our coasts, and variable over Scandinavia. Moderate to fresh in force. Little change during day.

Sea rough at Stornoway and Corunna.

Barometer rising generally. Large anticyclone lying over the S. of England and N. of France, with relatively low pressures over Spain and to the N. of Scotland. Rising slowly during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	59	41	56·3	43·6	50·0	+2·1	3	0·08	−0·22	*	*
	Stornoway	61	42	57·3	46·9	52·1	+2·8	5	0·55	−0·05	61	51
	Wick	64	36	59·3	46·1	52·7	+3·7	3	0·27	−0·01	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	49	60·9	51·1	56·0	+0·3	5	0·62	+0·31	*	*
	Jersey (Noirmont)	63	49	61·4	50·9	56·2	+0·1	5	0·78	+0·38	51	47

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	67	42	63·0	47·3	55·2	+ 4·4	2	0·21	−0·18	*	*
	Aberdeen	68	41	62·4	45·7	54·1	+ 3·4	3	0·41	−0·01	71	60
	Leith	68	43	63·7	47·3	55·5	+ 3·5	6	0·31	−0·09	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	45	61·3	47·7	54·5	+ 3·1	4	0·64	?	*	*
	Shields	66	45	60·4	47·9	54·2	+ 1·8	6	0·92	+0·52	*	*
	Durham	69	44	64·8	46·6	55·7	+ 3·9	4	0·91	+0·51	50	43
	Scarborough ⚓	69	47	62·5	49·9	56·2	+ 3·8	3	0·70	+0·25	*	*
	York	69	46	65·1	49·1	57·1	+ 3·5	6	0·94	+0·54	57	50
	Spurn Head	65	49	61·4	51·3	56·4	+ 3·6	5	0·72	?	*	*
3. ENGLAND, E.	Hillington ⚓	73	46	67·6	48·2	57·9	+ 4·5	3	0·64	+0·24	59	52
	Yarmouth	67	51	63·3	52·9	58·1	+ 3·6	1	0·43	−0·02	*	*
	Geldeston	73	47	67·2	50·0	58·6	+ 4·1	2	0·58	+0·27	68	61
	Cambridge	72	46	66·4	48·1	57·3	+ 2·5	2	0·63	+0·24	52	46
	Rothamsted	69	47	64·4	48·6	56·5	+ 1·8	4	0·48	+0·03	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	43	67·4	46·6	57·0	+ 2·9	5	0·99	+0·56	*	*
	Loughborough	70	47	65·7	49·3	57·5	+ 3·3	5	0·79	+0·27	*	*
	Leicester											
	Birmingham (Oscott)	68	45	63·2	47·8	55·5	+ 1·6	6	1·31	+0·78	*	*
	Cheadle ⚓	66	44	61·4	47·7	54·6	+ 1·8	5	1·30	?	*	*
	Churchstoke ⚓	67	44	62·9	46·3	54·6	+ 1·1	5	1·07	?	40	36
	Hereford ⚓	68	42	64·0	47·3	55·7	+ 1·1	5	1·55	+1·13	*	*
	Cirencester	68	45	63·3	48·1	55·7	+ 1·4	5	1·31	+0·81	41	37
	Oxford	68	47	63·7	50·1	56·9	+ 1·9	5	1·32	+0·92	48	43
5. ENGLAND, S.	London†	73	49	67·9	51·4	59·7	+ 3·8	3	0·23	−0·20	46	41
	Marlborough ⚓	68	44	62·7	48·9	55·8	+ 1·7	5	1·42	+0·94	46	41
	Strathfield Turgiss ⚓	72	44	66·3	48·5	57·4	+ 2·4	4	0·72	+0·37	*	*
	Dover	68	53	63·1	53·9	58·5	+ 3·3	4	0·29	−0·16	*	*
	Hastings (St. Leonard's)	66	52	61·8	52·9	57·4	+ 2·6	4	0·78	+0·43	*	*
	Southampton	68	51	63·4	52·2	57·8	+ 2·4	3	0·90	?	43	39
	Hurst Castle	62	51	61·1	52·7	56·9	+ 1·3	3	0·65	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	67	43	60·9	47·4	54·2	+ 2·9	6	1·98	?	*	*
	Glasgow	65	44	61·6	47·2	54·4	+ 2·6	5	1·29	+0·69	36	31
	Ardrossan	67	42	59·9	46·4	53·2	+ 0·6	4	0·68	+0·18	*	*
	Silloth (Cumberland)	69	46	63·7	49·6	56·7	+ 3·6	2	0·87	+0·46	51	44
	Douglas (Isle of Man)	67	43	60·5	49·0	54·8	+ 2·2	3	0·38	−0·01	60	53
7. ENGLAND, N.W.	Barrow-in-Furness	69	49	61·5	50·9	56·2	+ 2·5	4	0·89	?	*	*
	Stonyhurst	68	43	62·3	46·8	54·6	+ 1·6	5	1·01	+0·41	35	31
	Blackpool ⚓	69	42	61·6	48·1	54·9	+ 0·8	5	1·01	+0·61	49	43
	Manchester	66	44	61·8	47·1	54·5	+ 0·8	6	1·48	+1·07	*	*
	Liverpool Obsy (Bidston)	68	48	62·9	49·7	56·3	+ 2·1	6	0·35	−0·04	*	*
	Llandudno ⚓	66	49	62·5	50·8	56·7	+ 2·2	3	0·45	+0·07	51	45
	Holyhead	64	49	60·1	50·0	55·1	+ 0·7	3	0·78	+0·41	*	*
8. ENGLAND, S.W.	Pembroke	59	49	56·7	51·0	53·9	− 0·7	5	0·60	+0·18	57	51
	Arlington (N. Devon)	62	45	59·3	47·4	53·4	− 0·6	6	1·88	?	*	*
	Cullompton ⚓	66	44	62·1	48·5	55·3	+ 0·2	6	1·70	?	29	26
	Falmouth	63	48	59·3	50·9	55·1	+ 0·2	5	1·27	+0·67	43	39
	Plymouth	67	49	61·9	51·8	56·9	+ 1·3	5	0·61	+0·20	34	31
	Prawle Point	66	48	58·9	49·1	54·0	− 0·7	5	0·88	?	*	*
9. IRELAND, N.	Londonderry	68	40	63·2	44·6	53·9	+ 1·3	7	0·69	+0·24	*	*
	Mullaghmore	62	45	59·3	49·3	54·3	+ 1·3	7	0·79	?	*	*
	Markree Castle	66	37	60·9	44·3	52·6	− 0·7	6	0·46	−0·17	47	41
	Brookeborough	65	42	61·0	46·1	53·6	+ 0·3	6	0·69	?	*	*
	Armagh	63	44	60·6	47·6	54·1	+ 0·6	6	1·86	+1·53	46	40
	Donaghadee	63	43	59·6	47·7	53·7	0·0	5	1·03	?	*	*
10. IRELAND, S.	Dublin	65	48	62·8	51·1	57·0	+ 3·2	7	0·98	+0·50	53	47
	Parsonstown	64	42	61·0	46·6	53·8	− 0·1	7	1·75	+1·22	50	44
	Waterford	62	45	?60·1	?48·6	?54·4	? − 0·1	7	1·98	+1·47	*	*
	Roche's Point	63	47	60·3	49·6	55·0	+ 0·2	5	1·74	+1·04	*	*
	Valencia	60	46	58·1	49·4	53·8	− 0·1	5	0·77	+0·16	45	40
	Foynes	62	41	59·0	46·9	53·0	− 0·3	4	0·93	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JUNE 5, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	72	39	63	46	55	2 above.	3	5	1 more.	61	51
	2. ENGLAND, N.E.	70	39	62	48	55	1 above.	3	8	4 more.	46	39
	3. ENGLAND, E.	71	39	64	47	56	0 (average).	3	3	1 less.	57	50
	4. MID. COUNTIES	72	39	64	47	56	0 (average).	3	13	8 more.	38	34
	5. ENGLAND, S.	71	42	64	50	57	1 above.	3	5	1 more.	38	34
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	72	41	64	47	56	2 above.	3	4	1 less.	49	42
	7. ENGLAND, N.W.	69	42	63	49	56	0 (average).	4	10	6 more.	43	37
	8. ENGLAND, S.W.	70	40	61	50	56	1 below.	4	14	9 more.	39	35
	9. IRELAND, N.	71	37	64	47	56	1 above.	3	3	2 less.	50	43
	10. IRELAND, S.	69	44	64	50	57	1 above.	5	9	4 more.	41	37

General Remarks.

Weather during the first part of this period was fine and bright, but the last few days were very unsettled and rainy, while in many places sharp thunderstorms were experienced.

Temperature has been slightly below the mean in "England, S.W.", but in all other parts of the Kingdom it was equal to or a little above the normal value. The maxima, which were registered on different days in various districts, were as high as 72° at Nairn, Laudale, Loughborough, and Silloth, and between 69° and 71° at many other stations; while the minima ranged from 37° at Londonderry and 39° over central and northern England and the E. of Scotland, to 44° in the S. of Ireland.

Rainfall has been slightly less than the mean in "England, E.", "Scotland, W.", and "Ireland, N.", but considerably in excess over the western and central parts of England, and a little in excess elsewhere.

Bright sunshine again shows a decrease in duration, although the percentages were nowhere very low, ranging from 51 in "Scotland, E." and 50 in "England, E.", to 34 in "England, S." and the "Midland Counties".

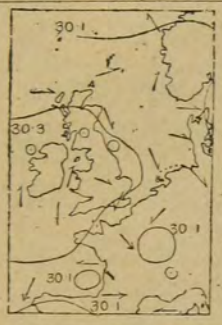
Depressions observed.—At the commencement of the period a large anticyclone existed over the greater part of our Islands, with very light winds varying in direction between N.W. and N.E. This area of high pressure, after moving northwards with increasing easterly winds in the S., finally travelled eastwards and south-eastwards, and disappeared over Denmark and N. Germany. Between the 3rd and 5th numerous small depressions passed over England in a westerly direction, while on the 4th a rather important disturbance travelled over our north-western coasts from the Atlantic, causing moderate and fresh south-westerly winds in all places.

R 2384. 460.—6/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending June 5, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Tuesday, May 30.

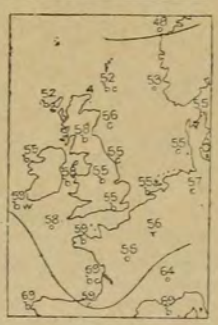
Weather dull over France, with thunderstorm at Charleville, but fair and dry in our Islands. Cloud extending to S. of England later, but no rain.

Temperature almost unchanged; ranging from 62° at Prawle Point and 61° in London to 51° at Sumburgh Head. Maxima varying from 72° at Loughborough to 59° in the Shetlands and Hebrides.

Wind moderate westerly in the extreme N., but north-easterly in the S. Light and variable at the more central stations. Little change later.

Sea smooth generally.

Barometer rising in our Islands, falling over the Continent. Large anticyclone covering the whole of United Kingdom, and small depression near Paris. French depression passing away eastward during day.



Wednesday, May 31.

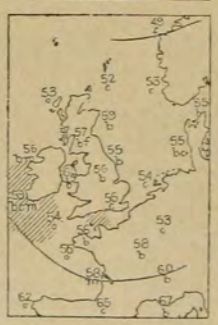
Weather still dull at eastern French stations, fine and dry elsewhere. Slight cloud appearing in some places in after part of day.

Temperature fallen slightly; ranging from 60° at Prawle Point and 58° in the S. of Ireland to 52° over the N. of Scotland. Maxima varying between 60° at Loughborough and 58° at Stornoway and Yarmouth.

Wind still westerly in extreme N., but easterly and north-easterly breezes extending to almost all the English and Irish stations.

Sea smooth generally.

Barometer rising slightly N., falling S. Anticyclone moving slowly northward in morning, but movement checked later.



Thursday, June 1.

Weather exceedingly fine and bright over the whole of western Europe. Becoming cloudy in west later, but no rain.

Temperature fallen a little in S. but tendency to rise shown in N. Readings ranging from 61° at Holyhead and 59° at Aberdeen and Valencia to 52° at Sumburgh Head and Prawle Point. Maxima varying between 68° at Mullaghmore and Parsonstown, and 57° in the N.E. of England.

Wind fresh or strong easterly in S. and W., light southerly in north, fresh northerly eastern shores of North Sea. Little change during day.

Sea rough south-west, slight or smooth elsewhere.

Barometer rising east and north, falling south-west. Large anticyclone still covering our islands. Depression advancing over Bay of Biscay. Fall of mercury in south-west becoming rather brisk later.

Friday, June 2.

Weather still fine and bright in Scotland and on eastern shores of North Sea, cloudy or dull elsewhere, with rain in south-west. Rain extending to all western and southern stations later.

Temperature risen south, fallen northern parts of England and Ireland; readings ranging from 59° at Ardrossan to 50° at Pembroke. Highest maxima reported 70° at Ardrossan and 72° at Nairn, only 62° in London.

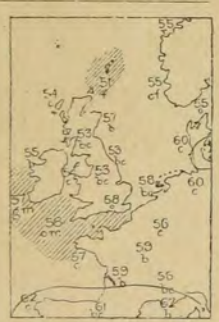
Wind light southerly Scotland, fresh to strong easterly Ireland and England. Veering to south-east and falling moderate later.

Sea rough Channel and at Mullaghmore.

Barometer rising eastern shores of North Sea, falling elsewhere. Anticyclone moving away eastward, depression approaching our south-west coasts. Recovery taking place in south-west later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 3.

Weather continuing fine Denmark and North Germany, cloudy or dull elsewhere, with mist or fog over the south of England. Thunder occurring in many places later, and rain falling generally.

Temperature risen; readings varying between 64° (at Dover) and 52° (at Wick). Maxima over central England between 66° and 70°.

Wind very light and variable in south of England, easterly or south-easterly elsewhere. Light south-westerly breezes appearing in south later.

Sea rather rough Valencia, slight or smooth generally.

Barometer falling except West France. Anticyclone now over North Germany, large shallow depression off S.W. coasts, and subsidiary disturbances near Dover and Lorient. Mercury falling generally later.

Sunday, June 4.

Weather cloudy and unsettled generally, with rain over Scotland and at Liverpool. Rain occurring most stations later, and thunder in some places, but weather improving in S. towards evening.

Temperature risen slightly S.W. and N.E., fallen most other places; readings ranging from 60° at Shields to 51° at Wick. Maxima during day, 68° at York, 69° in London, and 70° at Cambridge.

Wind moderate easterly over Norway and North Scotland, generally south-westerly elsewhere. South-westerly breeze extending to Stornoway later and increasing in channel.

Sea rough Valencia and Brest.

Barometer fallen generally, quickly in N., but recovering over France. Well-marked depression over N.E. Scotland and slight shallow disturbances passing across England. Former travelling away westward during day, and barometer rising in S.

Monday, June 5.

Weather fine over northern parts of Ireland and England, cloudy and unsettled elsewhere, with showers in many places. Dull, showery weather subsequently becoming general.

Temperature little changed; readings ranging from 59° at Yarmouth to 51° in the Shetlands. Day warmest along our N.E. and E. coasts; maximum 67° at Leith, 65° at Shields and Yarmouth, only 63° in London.

Wind southerly or south-easterly in the extreme N., south-westerly elsewhere. Fresh to strong in force.

Sea rough in S.W. and S., as well as at Sumburgh Head.

Barometer rising over France and England, falling at most Irish and Scotch stations. Depression of previous day quite disappeared, but small disturbances still passing across from S.W. Little change during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	60	43	56·6	46·7	51·7	+2·4	3	0·14	−0·16	*	*
	Stornoway	61	42	59·4	46·0	52·7	+2·0	3	0·62	−0·03	48	39
	Wick	64	40	61·0	47·3	54·2	+3·6	4	0·49	+0·21	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	53	59·6	53·6	56·6	−0·8	5	1·13	+0·75	*	*
	Jersey (Noirmont)	65	51	62·3	52·3	57·3	−0·4	5	0·73	+0·33	37	34

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	72	40	63·9	46·4	55·2	+ 2·8	2	0·81	+0·42	*	*
	Aberdeen	65	39	61·3	46·1	53·7	+ 1·3	3	0·57	+0·15	61	51
	Leith	69	42	64·7	46·1	55·4	+ 1·8	4	0·18	−0·22	*	*
2. ENGLAND, N.E.	Alnwick Castle	66	41	60·1	47·1	53·6	+ 0·6	3	1·14	?	*	*
	Shields	66	45	59·9	47·3	53·6	− 0·4	3	0·98	+0·58	*	*
	Durham	68	39	64·9	44·3	54·6	+ 1·1	3	0·77	+0·36	52	44
	Scarborough ℳ	66	49	59·7	49·8	54·8	+ 0·9	3	0·70	+0·25	*	*
	York	70	42	65·7	46·7	56·2	+ 0·9	3	0·95	+0·51	40	34
	Spurn Head	65	48	60·3	50·3	55·3	+ 0·9	3	0·48	?	*	*
3. ENGLAND, E.	Hillington ℳ	71	39	65·8	45·5	55·7	+ 0·6	4	0·24	−0·16	58	51
	Yarmouth	65	50	61·6	50·7	56·2	− 0·1	1	0·03	−0·42	*	*
	Geldeston	68	43	63·5	48·7	56·1	− 0·2	2	0·03	−0·32	66	58
	Cambridge	70	39	66·6	44·3	55·5	− 1·1	3	0·10	−0·29	46	41
	Rothamsted	67	42	62·8	47·3	55·1	− 1·2	4	0·94	+0·49	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	41	66·9	46·7	56·8	+ 1·0	3	1·38	+0·90	*	*
	Loughborough	72	41	66·1	47·0	56·6	+ 0·6	3	1·57	+1·03	*	*
	Leicester	71	42	66·0	47·5	56·8	+ 0·8	3	1·25	+0·72	41	36
	Birmingham (Oscott)	67	42	63·8	46·6	55·2	− 0·5	3	1·10	+0·54	*	*
	Cheadle ℳ	65	44	61·8	46·5	54·2	− 0·4	3	1·96	?	*	*
	Churchstoke ℳ	65	39	62·7	44·1	53·4	− 1·8	4	1·43	?	37	32
	Hereford ℳ	69	40	64·6	45·7	55·2	− 1·1	4	1·20	+0·78	*	*
	Cirencester	66	43	62·9	47·0	55·0	− 1·0	4	1·26	+0·76	35	31
	Oxford	66	43	63·6	48·9	56·3	− 0·5	3	0·51	+0·09	39	35
5. ENGLAND, S.	London†	71	47	66·6	50·4	58·5	+ 1·0	4	0·31	−0·17	35	31
	Marlborough	67	42	62·5	47·7	55·1	− 0·6	3	1·51	+1·03	37	33
	Strathfield Turgiss ℳ	71	42	67·3	46·2	56·8	+ 0·3	3	0·43	+0·05	*	*
	Dover	67	52	62·6	53·7	58·2	+ 1·5	2	0·10	−0·35	*	*
	Hastings (St. Leonard's)	67	47	63·4	52·0	57·7	+ 1·4	1	0·01	−0·29	*	*
	Southampton	71	45	65·6	50·3	58·0	+ 1·1	4	0·75	?	41	37
	Hurst Castle	69	47	63·1	51·6	57·4	+ 0·5	3	0·40	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	72	42	63·8	47·5	55·7	+ 3·0	3	0·84	?	*	*
	Glasgow	68	44	64·5	47·7	56·1	+ 2·8	3	0·14	−0·48	51	43
	Ardrossan	70	44	62·9	48·1	55·5	+ 1·1	4	0·29	−0·22	*	*
	Silloth (Cumberland)	72	41	67·1	46·1	56·6	+ 1·8	3	0·72	+0·30	53	45
	Douglas (Isle of Man)	66	42	61·5	46·8	54·2	− 0·1	3	0·23	−0·16	43	37
7. ENGLAND, N.W.	Barrow-in-Furness	67	48	63·0	50·7	56·9	+ 1·5	4	0·79	?	*	*
	Stonyhurst	69	45	63·9	47·9	55·9	+ 1·2	3	1·66	+1·06	39	34
	Blackpool ℳ	66	42	62·8	46·5	54·7	− 1·2	4	0·55	+0·14	42	36
	Manchester	66	43	63·4	47·1	55·3	0·0	3	2·28	+1·80	*	*
	Liverpool Obsy (Bidston)	67	48	63·3	49·6	56·5	+ 0·7	4	0·99	+0·59	*	*
	Llandudno ℳ	65	46	63·2	48·8	56·0	0·0	4	0·50	+0·12	47	41
	Holyhead	65	49	61·0	49·9	55·5	− 0·4	3	0·34	−0·05	*	*
8. ENGLAND, S.W.	Pembroke	64	49	59·4	50·9	55·2	− 0·8	4	0·77	+0·3	45	40
	Arlington (N. Devon)	65	44	60·7	47·6	54·2	− 1·1	4	2·72	?	*	*
	Cullompton ℳ	68	40	64·1	46·9	55·5	− 0·8	3	0·56	?	37	33
	Falmouth	64	49	60·2	52·4	56·3	0·0	4	1·75	+1·15	40	36
	Plymouth	70	49	63·7	52·0	57·9	+ 0·9	4	1·65	+1·25	33	30
	Prawle Point	68	48	58·7	50·1	54·4	− 1·6	5	0·67	?	*	*
9. IRELAND, N.	Londonderry	71	37	67·8	43·7	55·8	+ 1·7	2	0·22	−0·24	*	*
	Mullaghmore	68	48	62·7	51·7	57·2	+ 2·5	4	0·50	?	*	*
	Markree Castle	70	39	64·7	43·7	54·2	− 0·6	4	0·38	−0·31	46	40
	Brookeborough	70	40	65·5	45·5	55·5	+ 0·6	3	0·33	?	*	*
	Armagh	67	45	63·5	48·4	56·0	+ 0·9	3	0·29	−0·03	53	46
	Donaghadee	62	45	60·4	47·6	54·0	− 1·4	3	0·14	?	*	*
10. IRELAND, S.	Dublin	66	48	64·2	50·7	57·5	+ 2·0	4	0·55	+0·05	44	39
	Parsonstown	69	44	64·9	48·0	56·5	+ 1·0	3	0·48	−0·04	39	34
	Waterford	68	45	63·1	49·9	56·5	+ 0·6	6	0·99	+0·50	*	*
	Roche's Point	65	48	61·4	50·4	55·9	− 0·2	5	1·58	−0·93	*	*
	Valencia	67	46	62·9	51·4	57·2	+ 2·3	5	1·12	+0·51	41	37
	Foynes	67	48	64·4	49·6	57·0	+ 2·3	4	0·77	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JUNE 12, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	68	39	58	47	52	2 below.	6	9	5 more.	24	20
	2. ENGLAND, N.E.	67	39	60	47	54	1 below.	6	10	5 more.	48	41
	3. ENGLAND, E.	69	43	61	48	55	3 below.	6	10	5 more.	39	34
	4. MID. COUNTIES	67	40	60	47	53	4 below.	6	9	3 more.	41	35
	5. ENGLAND, S.	68	41	62	50	56	2 below.	6	8	4 more.	44	39
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	69	37	59	48	53	2 below.	5	11	5 more.	39	33
	7. ENGLAND, N.W.	64	41	58	49	54	3 below.	6	9	4 more.	40	34
	8. ENGLAND, S.W.	66	43	59	50	55	3 below.	6	6	2 more.	60	53
	9. IRELAND, N.	69	39	58	47	53	3 below.	7	12	7 more.	36	30
	10. IRELAND, S.	65	41	60	48	54	3 below.	6	6	1 more.	51	45

General Remarks.

Weather during this period has been dull, cold, and showery, while over England several thunderstorms have been experienced.

Temperature has been below the mean in all districts, the deficit over central England being as much as 4°. The thermometer was generally highest on the 7th, when it rose to 69° at Ardrossan, Mullaghmore, and Geldeston, and to between 65° and 68° at many other stations. On the 12th, the maxima were below 60° in almost all parts of the Kingdom, and at Nairn temperature did not exceed 47°. The minima were as low as 37° at Silloth, 39° in the E. of Scotland, the N.E. of England, and the N. of Ireland, and between 40° and 43° elsewhere.

Rainfall has been more than the mean in all districts, the excess being greatest in the eastern and northern parts of the country.

Bright sunshine shows a considerable decrease in duration in Scotland, the N.W. and E. of England, and the N. of Ireland; but elsewhere an increase is reported. The percentages ranged from 20 in "Scotland, E." to 45 in "Ireland, S." and 53 in "England, S.W."

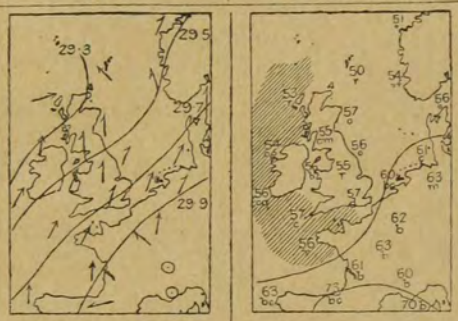
Depressions observed.—During the first few days of this period pressure was highest over France, while a series of small depressions passed in an easterly direction over our more northern and north-western coasts, causing moderate to fresh south-westerly to westerly winds. By the morning of the 10th, however, conditions had changed, and from that date till the close of the week the barometer was highest to the westward of Ireland and lowest in the eastern part of our area. Northerly winds consequently prevailed at all our stations, and, though moderate or fresh generally, increased to a gale at times in the N. and E. of Scotland.

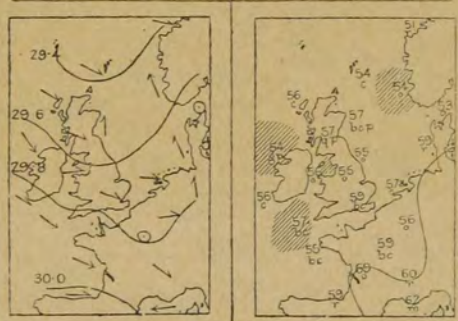
R 2471. 460.—6/82. Wt. 233. E. & S.

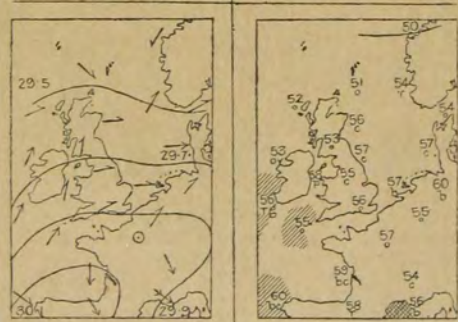
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending June 12, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 6.

Weather fine over France and at some of our north-western and northern stations, cloudy or dull elsewhere, with rain in the N. of Scotland and S.E. and E. of England. Rain falling generally later, with thunderstorm at Aberdeen, but weather improving towards evening.

Temperature risen slightly, and ranging from 59° at Yarmouth and Cambridge to 50° in the Shetlands. Highest maxima reported 68° at Leith and 67° at Loughborough; only 63° in London.

Wind generally south-westerly. Fresh or strong in force in the S. early, and in the N. later.

Sea rough on extreme W. coasts and in western half of Channel.

Barometer falling generally. Large depression off N.W. coasts and small subsidiary disturbances passing across Ireland and England. Northern depression moving eastward later, and barometer rising most places.

Wednesday, June 7.

Weather showery in some parts of Scotland and the N. of Ireland, but finer than of late in the more southern districts. Steady rain falling in the N.E. later, and thunder occurring in many parts of England, but weather continuing fair in the S.

Temperature very little changed; readings ranging from 59° in London and at Yarmouth to 52° at Nairn. Highest maxima 67° at York and 68° at London, Cambridge, and Yarmouth.

Wind southerly over Norway and Sweden, north-westerly or westerly in our Islands. Moderate or fresh in force generally. Little change later.

Sea rather rough at Mullaghmore and Scilly.

Barometer falling Sweden, rising elsewhere. Depression of previous day near Gulf of Bothnia, and shallow subsidiary disturbance over Scotland. Both travelling away eastward in course of day.

Thursday, June 8.

Weather cloudy or dull generally, with rain over S. Ireland and at Hurst Castle. Rain falling almost everywhere later.

Temperature fallen several degrees Sweden, little changed elsewhere. Readings ranging from 61° at Dover to 52° at Stornoway. Maxima below 60° in N.W. and N., but thermometer reaching 65° in London.

Wind westerly and south-westerly; light at our more eastern stations, fresh in the W. Subsequently veering and becoming strong on our western coasts, and freshening over England also.

Sea rough Valencia and Scilly.

Barometer rising over France and at all the more eastern stations, falling in the W. Well marked depression appearing in N.W. later, and fall of mercury extending to all our coasts.

Friday, June 9.

Weather fine in W., cloudy and unsettled elsewhere, with rain over France and the N.E. of England. Showers falling generally later, and rapid succession of thunder-storms passing over south-eastern England.

Temperature fallen slightly; readings ranging from 59° at Dover to 50° at Liverpool. Maxima below 60° in many parts of the kingdom, but 62° in London and 63° at York.

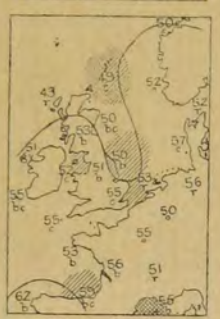
Wind moderate easterly over northern parts of Scandinavia and Scotland, fresh or strong westerly in more southern districts. Subsequently shifting to N.E. in Scotland and to N.W. in Ireland.

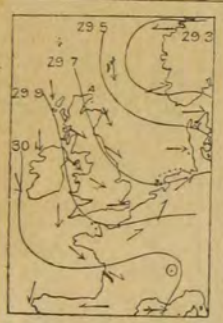
Sea rough W. and S.W.

Barometer rising Scandinavia, falling briskly our Islands. Elongated area of low pressure lying over S. of Scotland and N.E. of England in morning, but moving away eastward later, and barometer beginning to rise generally.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 10.

Weather finer in west and north, but continuing dull and showery in E. and S.E., with thunder in London. Improvement extending to eastern districts later.

Temperature risen slightly W. and S.W.; readings ranging from 57° at several of the more southern stations to 49° in the Shetlands. Maxima again below 60° in many places, including London, but as high as 66° at Prawle Point.

Wind north-easterly in Scandinavia, northerly our island, north-westerly France. Strong generally, and reaching gale at some of the northern stations; but moderating somewhat later.

Sea rough on all the more exposed parts of our coasts.

Barometer falling Denmark and Netherlands, rising briskly our islands. Depression of previous day passing away across North Sea. Recovery over the United Kingdom continuing all day.

Sunday, June 11.

Weather fair and bright in most districts, but becoming cloudy in N.W., with rain at Stornoway. Cloud and rain extending to all the more western and northern stations later, and some showers falling even in S.E.

Temperature fallen slightly generally; readings ranging from 56° at Dover to 43° at Stornoway. Maxima again very low, varying between 62° and 48°.

Wind backed to N.W. generally and to W.S.W. in the Hebrides; still strong in force on E. coasts. Backing to W. over N. of England later, but shifting to N. at Stornaway.

Sea rather rough on E. coasts, moderate elsewhere.

Barometer beginning to fall again in N.W., but still rising elsewhere. Low pressure area now over the S. of Sweden. Small depression appearing over Scotland later, and mercury falling generally.

Monday, June 12.

Weather fair but showery in S., dull and rainy in N. Thunderstorms occurring in E. of England later, and showers falling generally.

Temperature again fallen generally; now very low N., readings ranging from 56° at Dover to only 44° at Wick, Nairn, and Aberdeen. Maxima below 50° in N. of Scotland and below 60° at all stations excepting Prawle Point and Hurst Castle.

Wind moderate to fresh north-westerly and westerly in S., strong to a gale from N. in Scotland. Little change during day.

Sea rather rough on many parts of our northern coasts.

Barometer falling generally. Depression which lay over S. of Sweden on previous day now advancing over Norway in a north-westerly direction. Dispersing somewhat in course of day, and slight rise occurring over United Kingdom.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	58	41	54·9	44·3	49·6	−0·8	3	0·79	+0·49	*	*
	Stornoway	59	39	54·0	45·0	49·5	−2·3	6	1·10	+0·41	36	29
	Wick	61	39	56·0	45·9	51·0	−0·7	6	0·82	+0·52	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	51	57·9	52·1	55·0	−3·6	4	0·26	−0·19	*	*
	Jersey (Noirmont)	61	48	59·6	51·9	55·8	−3·1	5	1·07	+0·72	52	47

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	66	39	56·3	46·6	51·5	− 2·2	6	0·73	+0·35	*	*
	Aberdeen	63	39	57·3	46·3	51·8	− 1·8	7	1·12	+0·72	24	20
	Leith	68	42	60·4	47·0	53·7	− 1·1	6	0·69	+0·28	*	*
2. ENGLAND, N.E.	Alnwick Castle	64	40	57·1	45·3	51·2	− 2·9	6	1·51	?	*	*
	Shields	65	39	59·3	47·6	53·5	− 1·8	6	0·84	+0·44	*	*
	Durham	66	39	61·7	45·7	53·7	− 1·1	5	0·45	+0·03	46	39
	Scarborough ⚓	65	44	60·0	48·8	54·4	+ 0·3	7	1·63	+1·18	*	*
	York	67	41	62·3	47·1	54·7	− 1·6	6	0·80	+0·30	50	43
	Spurn Head	64	45	58·4	49·7	54·1	− 1·4	6	0·47	?	*	*
3. ENGLAND, E.	Hillington ⚓	66	44	62·4	47·8	55·1	− 1·3	5	1·25	+0·85	38	33
	Yarmouth	68	46	60·3	49·9	55·1	− 2·5	7	1·03	+0·55	*	*
	Geldeston	69	43	62·1	48·6	55·4	− 2·3	5	0·78	+0·39	46	40
	Cambridge	68	43	62·1	47·6	54·9	− 3·1	7	1·02	+0·62	32	28
	Rothamsted	67	44	60·2	47·0	53·6	− 4·0	6	0·66	+0·18	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	65	40	60·3	45·1	52·7	− 4·3	6	0·68	+0·18	*	*
	Loughborough	67	43	61·0	48·4	54·7	− 2·8	6	0·88	+0·31	*	*
	Leicester	67	44	61·5	48·5	55·0	− 2·3	7	0·85	+0·29	44	38
	Birmingham (Oscott)	66	43	59·8	46·8	53·3	− 3·7	5	0·48	−0·10	*	*
	Cheadle ⚓	63	41	56·0	46·2	51·1	− 4·7	6	1·52	?	*	*
	Churchstoke ⚓	64	42	57·7	46·1	51·9	− 4·4	6	1·09	?	37	32
	Hereford ⚓	67	40	61·1	46·6	53·9	− 3·7	5	0·43	+0·03	*	*
	Cirencester	61	43	58·4	47·1	52·8	− 4·5	7	1·06	+0·54	41	36
	Oxford	65	46	61·0	49·6	55·3	− 2·8	6	0·69	+0·22	40	35
5. ENGLAND, S.	London†	68	46	62·4	49·0	55·7	− 3·0	6	1·09	+0·59	36	32
	Marlborough ⚓	63	41	60·4	47·3	53·9	− 3·0	6	0·94	+0·46	45	40
	Strathfield Turgiss ⚓	66	44	63·0	46·4	54·7	− 3·0	4	0·64	+0·24	*	*
	Dover	64	47	60·9	52·9	56·9	− 0·7	6	0·90	+0·45	*	*
	Hastings (St. Leonard's)	62	47	60·4	50·7	55·6	− 1·7	6	0·78	+0·48	*	*
	Southampton	68	45	63·3	50·0	56·7	− 1·3	6	0·74	?	50	44
	Hurst Castle	65	44	61·1	51·3	56·2	− 1·7	6	0·78	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	60	39	55·6	46·9	51·3	− 2·4	6	1·39	?	*	*
	Glasgow	65	40	58·6	47·1	52·9	− 1·8	5	1·13	+0·48	30	25
	Ardrossan	69	42	58·7	48·0	53·4	− 2·4	5	1·24	+0·73	*	*
	Silloth (Cumberland)	66	37	62·6	48·2	55·4	− 0·7	5	0·86	+0·44	40	34
	Douglas (Isle of Man)	60	43	57·3	48·3	52·8	− 2·8	5	0·68	+0·29	46	39
7. ENGLAND, N.W.	Barrow-in-Furness	62	42	58·9	49·9	54·4	− 2·3	6	0·68	?	*	*
	Stonyhurst	64	42	58·3	46·7	52·5	− 3·4	7	1·27	+0·60	41	35
	Blackpool ⚓	61	44	58·2	49·9	54·1	− 3·0	7	0·57	+0·15	46	39
	Manchester	64	41	57·6	46·6	52·1	− 4·5	7	1·75	+1·20	*	*
	Liverpool Obsy (Bidston)	64	45	58·1	49·9	54·0	− 3·0	6	0·83	+0·38	*	*
	Llandudno ⚓	63	43	58·7	48·4	53·6	− 3·5	6	0·52	+0·14	32	28
	Holyhead	63	47	57·3	50·0	53·7	− 3·4	6	0·50	+0·12	*	*
8. ENGLAND, S.W.	Pembroke	59	47	56·7	50·9	53·8	− 3·3	6	0·55	+0·16	63	55
	Arlington (N. Devon)	61	44	57·0	48·0	52·5	− 4·1	6	1·17	?	*	*
	Cullompton ⚓	65	43	61·1	48·6	54·9	− 2·7	5	0·57	?	60	53
	Falmouth	62	48	58·8	50·7	54·8	− 2·4	7	0·68	+0·08	63	56
	Plymouth	66	47	63·0	51·3	57·2	− 0·8	4	0·53	+0·13	55	48
	Prawle Point	66	43	60·0	48·9	54·5	− 2·4	3	0·36	?	*	*
9. IRELAND, N.	Londonderry	64	39	58·9	45·5	52·2	− 3·1	7	1·62	+1·13	*	*
	Mullaghmore	69	42	58·3	50·1	54·2	− 1·7	7	1·31	?	*	*
	Markree Castle	63	40	57·8	46·8	52·3	− 3·7	7	1·52	+0·81	31	26
	Brookeborough	63	39	57·4	46·7	52·1	− 4·0	7	0·95	?	*	*
	Armagh	61	40	57·6	46·7	52·2	− 4·2	6	0·86	+0·53	40	34
	Donaghadee	62	41	58·3	47·4	52·9	− 3·7	5	0·74	?	*	*
10. IRELAND, S.	Dublin	64	43	59·8	48·4	54·1	− 2·6	7	0·48	−0·08	49	42
	Parsonstown	63	41	59·1	47·6	53·4	− 3·2	5	0·76	+0·26	50	43
	Waterford	65	41	61·1	46·7	53·9	− 3·0	6	0·50	+0·02	*	*
	Roche's Point	64	48	61·4	49·4	55·4	− 1·6	6	0·68	+0·08	*	*
	Valencia	63	46	59·9	49·9	54·9	− 1·0	5	0·67	+0·02	55	48
	Foynes	60	44	56·4	46·6	51·5	− 4·3	4	0·70	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JUNE 19, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	67	37	59	44	51	4 below.	5	6	2 more.	47	39
	2. ENGLAND, N.E.	66	38	60	45	52	4 below.	4	4	1 less.	46	38
	3. ENGLAND, E.	68	38	61	45	53	6 below.	5	11	7 more.	36	31
	4. MID. COUNTIES	67	35	61	45	53	6 below.	4	4	1 less.	37	32
	5. ENGLAND, S.	67	37	62	46	54	5 below.	4	5	1 more.	42	37
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	65	38	58	46	52	5 below.	5	12	5 more.	41	34
	7. ENGLAND, N.W.	62	36	58	46	52	6 below.	4	13	8 more.	40	34
	8. ENGLAND, S.W.	67	36	59	47	53	5 below.	4	6	1 more.	53	46
	9. IRELAND, N.	64	33	58	46	52	5 below.	5	13	7 more.	34	29
	10. IRELAND, S.	64	36	60	47	54	4 below.	5	7	1 more.	41	35

General Remarks.

Weather has again been cold, showery, and extremely unseasonable in all parts of the Kingdom. Thunder and lightning have been experienced in several parts of England.

Temperature has again been below the mean in all districts, the deficit being 5° or 6° over the greater part of England, and 4° or 5° in Ireland and Scotland. In very many places the maxima did not exceed 65° during the whole period; while the minima, which were registered on the 16th in Ireland and the 17th over England, were as low as 33° in "Ireland, N.", 35° over central England, and from 36° to 38° elsewhere. On the grass temperature was, of course, much lower, and in London during the early morning of the 16th it fell to 31°.

Rainfall has been a little less than the mean in the "Midland Counties" and "England, N.E.", but more elsewhere; at the north-western stations and in "England, E." the excess was considerable.

Bright sunshine shows a decrease in duration in most districts, the percentages ranging from 29 in "Ireland, N." to 46 in "England, S.W."

Depressions observed.—The barometer has been generally highest over France and our southern coasts, while numerous depressions have passed from W. to E. across our more northern districts. The wind has consequently varied between S. and W. or N.W., and, though generally light or moderate, blew with the force of a strong breeze or fresh gale at many of our northern stations from the 13th to 15th.

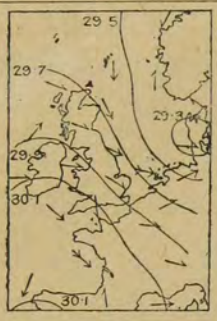
R 2549. 460.—6/82. Wt. 233. E. & S

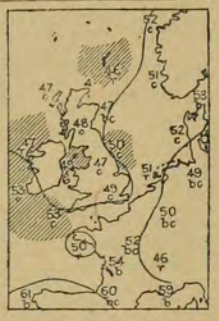
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending June 19, 1882.

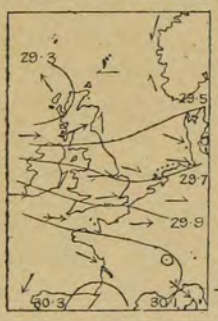
Synoptic Weather Charts.—8 a.m.

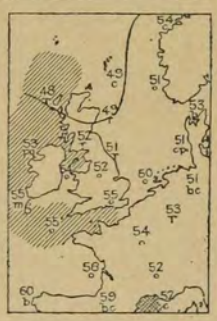
BAROMETER AND WIND.

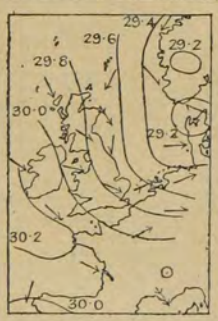
CLOUD, RAIN, SEA, AND TEMPERATURE.

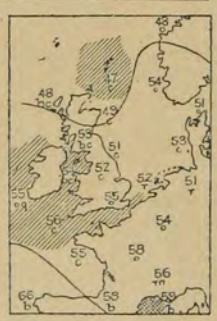


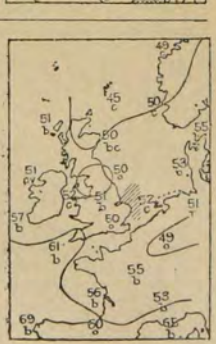












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 13.

Weather fine at some of our eastern and southern stations, but very dull in the W., with heavy rain at Mullaghmore. Cloud and rain extending to all parts later.

Temperature scarcely changed; readings ranging from 55° at Dover to 45° at Nairn. Maxima very low for time of year, below 55° in the N. and N.W., and only 56° in London.

Wind fresh or strong north-westerly in E. and S., backing to S.W. and W. in the W. Westerly winds becoming general later except in Scotland, where northerly and easterly breezes set in.

Sea rough on all exposed parts of our western and northern coasts.

Barometer falling Denmark and extreme N. and N.W. of these Islands, rising elsewhere. Small depression near Fanö, area of high pressure off our S.W. coasts. New disturbance appearing over Scotland later and mercury falling generally.

Wednesday, June 14.

Weather cloudy or dull, with rain over all the more northern parts of the kingdom. Some improvement taking place later, but conditions still showery and unsettled.

Temperature risen generally; readings ranging from 56° at Hurst Castle to 45° at Wick. Maxima slightly exceeding 60° except in extreme N.; at Wick maximum only 49°.

Wind fresh south-easterly in N. Scotland, westerly elsewhere. Strong in Ireland and the S.W. of England. Shifting to W. and N. in Scotland later, and blowing slight gale at all northern stations.

Sea rough W. and S.

Barometer rising S. France, falling elsewhere, quickly Scotland. Elongated area of low pressure crossing N. coasts during day, and slight recovery taking place in W. towards evening.

Thursday, June 15.

Weather fair W. and N.W., cloudy and showery E. Improvement extending to E. later, but thunderstorm at Dover in evening.

Temperature very little changed; readings ranging from 58° at Dover to 46° at Wick. Maxima below 55° in N. Scotland, but as high as 65° at Leith, Prawle Point, and Hurst Castle.

Wind light easterly in Sweden, but strong northerly over N. Britain, and fresh north-westerly or westerly in S. Little change during day.

Sea rough W. and S. and at Sumburgh Head.

Barometer falling eastern shores of North Sea and also over S. France, rising our Islands, quickly in N. Area of low pressure now over Norway and northern Denmark, barometer highest off S. Ireland.

Friday, June 16.

Weather fair generally in morning, but becoming unsettled at extreme western stations towards night.

Temperature fallen slightly most places; readings ranging from 61° at Scilly to 45° in the Shetlands. Rising quickly in S.E. later, and maxima varying between 66° at Leith, 64° in London, and 50° at Sumburgh Head.

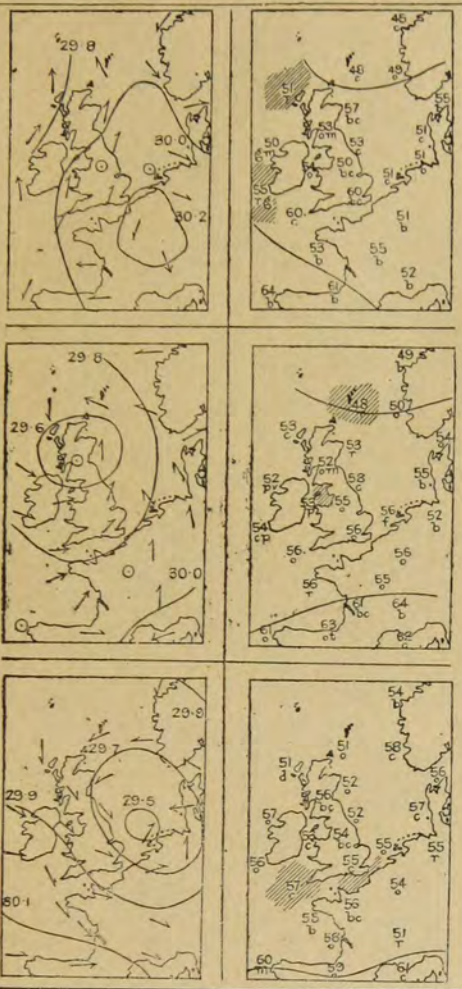
Wind moderate or fresh north-westerly in N. and E., light north-easterly in S. South-westerly and southerly breezes setting in at all western stations later.

Sea moderate E. coasts, slight or smooth elsewhere.

Barometer rising generally, and large anticyclone advancing over western coasts from Atlantic. Fall of barometer taking place in W. later, and anticyclone moving slowly eastward.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 17.

Weather fine in E. and S., but cloudy W. and N.W., with rain over South Ireland and at Stornoway. Cloud and rain extending eastwards during day.

Temperature fallen slightly Ireland, risen elsewhere; readings ranging from 60° in London and at Scilly to 50° at Mullaghmore. Highest maximum 66° at Spurn Head, Loughborough, and in London.

Wind north-westerly over Scandinavia and Denmark, and easterly in France, but southerly or south-westerly on our coasts. Strong in force in the extreme W. Not much change during day.

Sea rough Valencia and Stornoway.

Barometer falling over our islands and West France. Anticyclone now over N.E. of France, and depression advancing to our N.W. coasts during latter part of day.

Sunday, June 18.

Weather cloudy or dull generally, with rain in many parts of the country. Thunderstorms occurring in E. and S. of England later, but improvement taking place generally in evening.

Temperature risen France, fallen elsewhere; readings ranging from 56° at Cambridge and Scilly to 48° in the Shetlands. Maxima below 60° at majority of stations, but thermometer reaching 67° at Leith.

Wind westerly in W. and S.W., south-westerly in E., and southerly or south-easterly in N. Moderate or light generally. Wind veering to N.W. everywhere later.

Sea moderate generally, but rough round Shetlands.

Barometer falling all coasts, and small depression lying over Scotland. Disturbance moving east south-eastward later, and recovery setting in at all western stations.

Monday, June 19.

Weather fine in S.W., cloudy elsewhere, with rain on S.E. coast of England. Showers falling most districts later, and dull weather setting in generally.

Temperature little changed; readings ranging from 60° at Dover to 50° at Nairn. Highest maxima reported 65° at Hurst Castle and Cambridge and 66° in London.

Wind easterly in N., north-westerly and westerly elsewhere; moderate in force generally. Subsequently backing on W. coasts, but continuing moderate.

Sea rough S. and S.W.

Barometer falling Denmark and Netherlands, rising elsewhere, and depression of previous day shown over southern portion of North Sea. Fresh fall setting in in W. later, and small shallow disturbances advancing from Atlantic.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	56	37	51·7	43·0	47·4	−4·2	3	0·12	−0·18	*	*
	Stornoway	56	39	54·1	44·4	49·3	−3·6	5	0·81	+0·11	37	29
	Wick	57	35	53·4	41·9	47·7	−5·3	4	1·14	+0·79	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	48	59·7	51·6	55·7	−4·3	2	0·35	−0·19	*	*
	Jersey (Noirmont)	64	45	59·7	50·1	54·9	−5·3	3	0·05	−0·27	65	58

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	60	40	56·7	44·3	50·5	− 4·5	5	0·52	+0·14	*	*
	Aberdeen	62	37	57·0	42·6	49·8	− 5·1	5	0·53	+0·13	47	39
	Leith	67	39	61·9	44·4	53·2	− 2·9	5	0·74	+0·29	*	*
2. ENGLAND, N.E.	Alnwick Castle	61	39	58·1	44·6	51·4	− 4·0	4	0·37	?	*	*
	Shields	63	38	58·6	43·6	51·1	− 5·5	4	0·47	+0·08	*	*
	Durham	65	38	61·5	43·1	52·3	− 3·9	5	0·46	+0·02	48	40
	Scarborough ℳ	64	43	59·0	46·7	52·9	− 3·5	5	0·16	−0·29	*	*
	York	64	39	62·4	44·4	53·4	− 4·2	4	0·35	−0·20	?43	?36
	Spurn Head	66	44	58·1	47·6	52·9	− 3·9	3	0·51	?	*	*
3. ENGLAND, E.	Hillington ℳ	68	38	61·5	43·8	52·7	− 5·1	6	1·58	+1·18	34	29
	Yarmouth	62	43	58·4	46·3	52·4	− 6·7	6	1·31	+0·81	*	*
	Geldeston	67	38	60·5	44·2	52·4	− 6·8	6	1·43	+1·02	39	34
	Cambridge	67	41	61·9	44·7	53·3	− 6·2	5	0·73	+0·28	36	31
	Rothamsted	65	39	60·7	44·5	52·6	− 6·3	3	0·51	0·00	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	65	39	62·3	46·3	54·3	− 4·0	5	0·27	−0·25	*	*
	Loughborough	66	41	62·3	45·9	54·1	− 4·7	3	0·28	−0·28	*	*
	Leicester	67	41	61·8	46·0	53·9	− 4·9	5	0·37	−0·23	31	26
	Birmingham (Oscott)	64	42	60·0	45·1	52·6	− 5·8	4	0·73	+0·13	*	*
	Cheadle ℳ	60	41	57·7	43·1	50·4	− 6·8	5	1·04	?	*	*
	Churchstoke ℳ	63	35	58·9	43·0	51·0	− 6·7	4	0·32	?	39	33
	Hereford ℳ	64	37	62·1	43·7	52·9	− 5·9	4	0·22	−0·20	*	*
	Cirencester	65	37	60·6	43·4	52·0	− 6·7	4	0·36	−0·19	39	34
	Oxford	64	41	61·4	45·9	53·7	− 5·8	3	0·49	+0·01	38	33
5. ENGLAND, S.	London†	66	40	62·9	45·4	54·2	− 5·8	5	0·43	−0·08	32	28
	Marlborough ℳ	63	37	60·7	43·4	52·1	− 6·1	4	0·83	+0·37	41	36
	Strathfield Turgiss ℳ	67	37	64·3	43·0	53·7	− 5·3	4	0·33	−0·09	*	*
	Dover	63	44	60·7	49·4	55·1	− 3·9	5	0·55	+0·12	*	*
	Hastings (St. Leonard's)	63	40	59·8	47·9	53·9	− 4·6	5	0·30	0·00	*	*
	Southampton	67	41	63·8	46·6	55·2	− 4·0	3	0·20	?	53	46
	Hurst Castle	65	43	62·0	48·3	55·2	− 3·8	3	1·07	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	61	38	55·4	45·2	50·3	− 4·6	5	1·95	?	*	*
	Glasgow	62	40	57·4	45·6	51·5	− 4·6	4	0·81	+0·12	34	28
	Ardrossan	62	42	56·4	45·6	51·0	− 6·2	5	0·83	+0·32	*	*
	Silloth (Cumberland)	65	39	60·8	45·4	53·1	− 4·2	5	0·74	+0·30	38	31
	Douglas (Isle of Man)	61	41	57·8	46·6	52·2	− 4·6	4	1·52	+1·12	50	42
7. ENGLAND, N.W.	Barrow-in-Furness	61	44	58·3	47·0	52·7	− 5·4	4	1·40	?	*	*
	Stonyhurst	60	38	58·0	44·5	51·3	− 5·9	3	1·59	+0·89	39	33
	Blackpool ℳ	58	36	56·9	46·1	51·5	− 7·0	4	1·29	+0·84	48	40
	Manchester	60	39	57·4	44·3	50·9	− 7·0	4	1·32	+0·71	*	*
	Liverpool Obsy (Bidston)	60	45	57·4	47·4	52·4	− 5·9	4	1·08	+0·59	*	*
	Llandudno ℳ	60	44	57·1	47·8	52·5	− 5·9	4	1·21	+0·81	33	28
	Holyhead	62	42	57·3	47·4	52·4	− 6·0	4	1·13	+0·74	*	*
8. ENGLAND, S.W.	Pembroke	59	44	56·3	48·6	52·5	− 5·7	4	0·89	+0·49	56	48
	Arlington (N. Devon)	59	38	57·4	44·4	50·9	− 6·9	5	0·98	?	*	*
	Cullompton ℳ	64	36	59·7	44·6	52·2	− 6·6	4	0·47	?	47	41
	Falmouth	62	47	59·8	50·0	54·9	− 3·5	2	0·44	−0·16	58	51
	Plymouth	67	44	63·7	48·6	56·2	− 2·9	4	0·43	+0·04	51	45
	Prawle Point	65	41	59·3	46·1	52·7	− 5·3	3	0·21	?	*	*
9. IRELAND, N.	Londonderry	64	41	60·2	45·1	52·7	− 3·9	5	1·44	+0·94	*	*
	Mullaghmore	61	45	57·9	47·9	52·9	− 4·3	6	1·47	?	*	*
	Markree Castle	62	33	59·0	44·2	51·6	− 5·7	6	1·03	+0·28	35	29
	Brookeborough	61	34	57·3	43·9	50·6	− 6·8	5	1·58	?	*	*
	Armagh	61	41	58·0	46·1	52·1	− 5·6	6	1·14	+0·66	33	28
	Donaghadee	61	44	58·0	46·4	52·2	− 5·7	4	0·86	?	*	*
10. IRELAND, S.	Dublin	63	40	59·1	47·1	53·1	− 4·9	5	0·46	−0·14	44	37
	Parsonstown	62	36	59·6	44·6	52·1	− 5·8	6	0·77	+0·29	44	37
	Waterford	64	41	59·8	48·0	53·9	− 4·2	5	0·61	+0·11	*	*
	Roche's Point	63	44	61·0	47·9	54·5	− 3·7	4	0·58	+0·02	*	*
	Valencia	61	40	59·7	48·1	53·9	− 2·9	6	1·06	+0·38	35	30
	Foynes	61	40	58·2	48·5	53·4	− 3·6	5	0·68	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JUNE 26, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Amwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	68	42	54	48	51	0 (average)	6	10	5 more.	38	31
	2. ENGLAND, N.E.	72	44	63	50	56	1 below.	5	11	7 more.	32	27
	3. ENGLAND, E.	72	44	66	50	58	2 below.	4	10	5 more.	36	31
	4. MID. COUNTIES	76	43	65	49	57	3 below.	5	13	8 more.	31	26
	5. ENGLAND, S.	70	42	64	51	58	2 below.	4	10	6 more.	33	29
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	68	44	62	48	55	2 below.	5	13	6 more.	48	40
	7. ENGLAND, N.W.	68	45	62	50	56	3 below.	6	13	7 more.	29	25
	8. ENGLAND, S.W.	66	40	61	50	56	4 below.	6	11	7 more.	50	44
	9. IRELAND, N.	71	41	63	48	55	3 below.	6	9	4 more.	46	39
	10. IRELAND, S.	65	44	61	48	55	4 below.	6	12	7 more.	52	44

General Remarks.

Weather has continued cold, dull, and showery, with occasional thunder and lightning.

Temperature has been equal to the mean in "Scotland, E.", but in all other districts it has been below the normal value, the deficit in the south-western parts of the Kingdom being 4°. The maxima, which occurred generally during the latter part of the period, were considerably higher in most places than those of last week, and ranged from 66° in "England, S.W." to 76° in the "Midland Counties." The thermometer was lowest either on the 23rd or 24th, when it fell to 40° in the S.W. of England, 41° in the N. of Ireland, and to between 42° and 45° elsewhere.

Rainfall has been several tenths of an inch more than the mean in all districts.

Bright sunshine shows a decrease in duration in nearly all places. The percentage was greatest (44) in "Ireland, S." and "England, S.W.", and least (25) in "England, N.W."

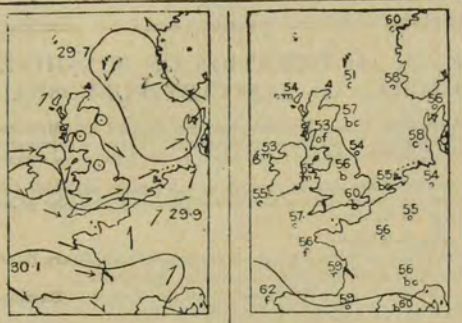
Depressions observed.—An area of high pressure has held steadily over Scandinavia, and an area of comparatively high readings over France, while several small depressions have passed across our Islands from the southward or south-westward. The wind, though subject to local variations in consequence of these disturbances, has been generally south-westerly in direction and moderate or light in force.

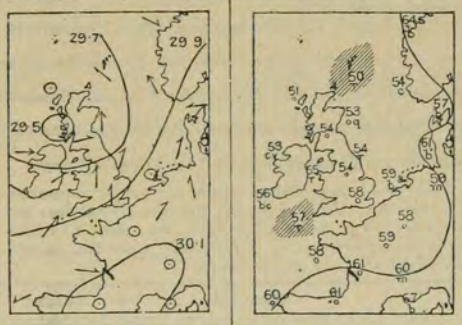
R 2659. 460.—6/82. Wt. 233. E. & S.

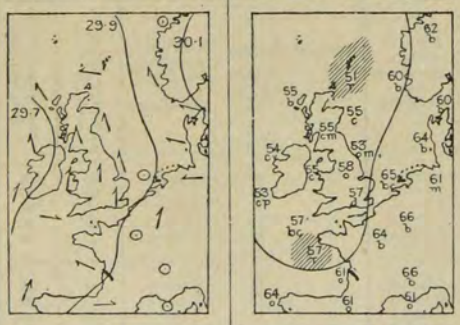
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending June 26, 1882.

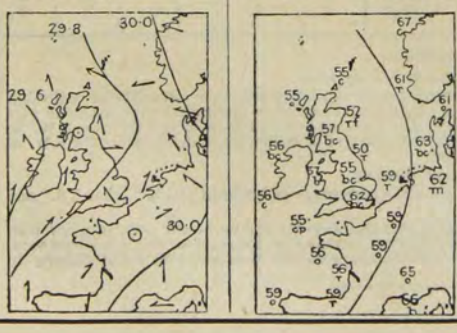
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 20.

Weather fine greater part of England and Scotland, cloudy or dull elsewhere, with rain over W. of France. Rain at all western stations in evening.

Temperature risen generally; readings ranging from 60° in London to 51° at Sumburgh Head. Highest maxima 68° at Leith and York, 69° at Loughborough and in London, and 70° at Cambridge.

Wind light or moderate westerly over England and Ireland, north-westerly airs Scotland. Backing to S.W. or S. generally later, and freshening at Valencia and Stornoway.

Sea moderate or smooth except Scilly, where rather rough.

Barometer rising France and E. England, falling elsewhere. Depressions over northern part of North Sea; readings relatively high N. Sweden and S. France. Small shallow disturbances appearing on our W. coasts later, but barometer continuing to rise in E.

Wednesday, June 21.

Weather fine Scandinavia, cloudy greater part of our Islands, with rain in W. England. Showers in most districts later.

Temperature fallen slightly our Islands, risen on Continent; readings ranging from 59° at Dover to 50° in the Shetlands. Maxima below 55° in extreme N., but reaching 65° in London and 66° at Loughborough and Cambridge.

Wind westerly Ireland and France, south-westerly or southerly elsewhere; moderate or fresh in force. Backing to S.W. in Ireland later.

Sea rather rough Sumburgh Head and Scilly.

Barometer rising E. France and eastern shores of North Sea, falling elsewhere. High pressures holding over Sweden and S. France, that in former locality being the more pronounced, and depression appearing off W. Scotland. Depression moving northward later, and barometer rising most places.

Thursday, June 22.

Weather fine Scandinavia and parts of Scotland, cloudy elsewhere, with steady rain over the midland counties, southern England, and N.W. of France. Weather improving in S. later, but rain setting in over Scotland.

Temperature risen slightly N.; readings ranging from 60° at Leith, Dover, and Yarmouth to 51° in the Shetlands. Maxima below 60° in W., but thermometer reaching 66° at Nairn.

Wind light or moderate southerly, inclining to S.W. in the S. and to S.E. in the N. Little change during day.

Sea moderate to smooth on almost all our coasts.

Barometer rising Scandinavia and our N. coasts, falling elsewhere. Anticyclone over N. Sweden, with depression off W. Ireland, and shallow local disturbances over England. Mercury falling generally later.

Friday, June 23.

Weather dull and rainy on our N.E. coasts and in S.W. of France, finer over southern part of United Kingdom. Sky clearing in Scotland later, but becoming overcast in southern England, with rain at Hurst Castle.

Temperature changed irregularly; readings ranging from 62° in London to 50° at Shields. Highest maxima registered 66° in London and at Cambridge, and 68° at Leith.

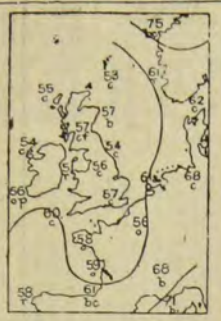
Wind still southerly generally, but drawing into S.E. in the N. of Scotland. Very little change occurring later.

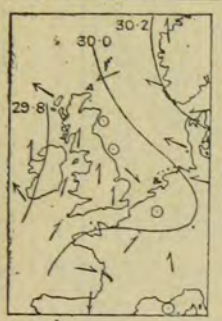
Sea moderate in the W. and S., smooth elsewhere.

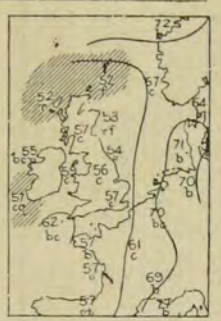
Barometer rising over France and Sweden, falling elsewhere. Anticyclone holding in N. of Sweden, and depression off the W. of Ireland. Rise taking place generally later.

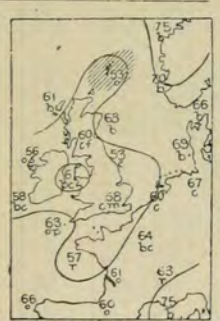
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 24.

Weather fair at the majority of stations, but dull and showery in the S. of Ireland. Showers occurring at all western stations later, and thunderstorms with heavy rain in S.E. of England.

Temperature risen generally, and ranging from 60° at Nairn, Scilly, Hurst Castle, and Cambridge to 51° at Holyhead. The highest maxima were 68° at York and Cambridge and 69° in London.

Wind light or moderate between S. and S.E. generally. Scarcely any change during day.

Sea moderate or smooth.

Barometer falling N. of Sweden and S.W. of France, rising elsewhere. Anticyclone holding over Gulf of Bothnia, and lowest readings found off our W. coasts. Slight fall taking place generally later, and shallow depression appearing in S. England.

Sunday, June 25.

Weather dull and rainy over Scotland and very cloudy in the midland counties, fair in other districts. Fine weather setting in over whole of England later, but clouds and showers appearing in S.W.

Temperature changed irregularly, and readings ranging from 62° at Scilly to 52° in the N. of Scotland. Maxima over central England varying between 65° and 70°.

Wind easterly in N. of Scotland and southerly on our W. coasts, light and variable elsewhere. Southerly breezes becoming general later.

Sea rather rough at Valencia and off the N. of Scotland.

Barometer rising S. and W., falling elsewhere. Anticyclone still over Gulf of Bothnia, and relatively high pressures over N. of Spain but shallow depressions over England and to the westward of Ireland. Rising generally later, and disturbances moving away.

Monday, June 26.

Weather fair greater part of United Kingdom, but dull in W. France and at Scilly, with rain in some places. Thunderstorms occurring later in many parts of England.

Temperature again changed irregularly; ranging from 63° at Scilly and Aberdeen to 52° at Leith. Maxima over central England varying between 69° and 72°.

Wind moderate, southerly in S.W., south-easterly in W., calms or variable airs elsewhere. Shifting to N.W. at all western stations later.

Sea moderate to smooth except at Sunburgh Head.

Barometer falling Scandinavia and our S.W. coasts; rising elsewhere. Anticyclone still over Gulf of Bothnia, and shallow depression advancing towards S. Ireland. Depression travelling across England in course of day, and barometer rising W.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	58	46	55·6	48·0	51·8	−0·3	6	1·48	+1·19	*	*
	Stornoway	65	43	60·1	47·0	53·6	+0·2	5	0·96	+0·24	41	33
	Wick	63	40	59·4	48·0	53·7	+0·1	6	1·25	+0·85	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	51	61·6	52·2	56·9	−3·3	7	0·70	+0·13	*	*
	Jersey (Noirmont)	64	51	62·0	53·0	57·5	−2·8	6	0·98	+0·67	41	37

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	67	43	64·4	49·6	57·0	+ 1·3	5	0·58	+0·18	*	*
	Aberdeen	68	42	61·9	47·3	54·6	− 0·9	6	1·27	+0·87	38	31
	Leith	68	43	65·1	48·4	56·8	− 0·1	6	1·01	+0·53	*	*
2. ENGLAND, N.E.	Alnwick Castle	66	44	61·6	48·6	55·1	− 0·9	6	0·89	?	*	*
	Shields	65	46	59·7	49·0	54·4	− 2·7	6	1·33	+0·93	*	*
	Durham	70	45	65·5	47·8	56·7	− 0·2	6	1·64	+1·18	31	25
	Scarborough ℔	65	50	61·4	51·8	56·6	− 0·6	5	0·87	+0·38	*	*
	York	72	48	65·9	50·1	58·0	− 0·6	4	1·20	+0·65	33	28
	Spurn Head	64	51	61·3	52·7	57·0	− 0·8	5	0·94	?	*	*
3. ENGLAND, E.	Hillington ℔	72	44	68·6	49·8	59·2	+ 0·4	5	1·13	+0·64	33	28
	Yarmouth	63	50	62·1	52·9	57·5	− 2·3	3	0·72	+0·21	*	*
	Geldeston	68	46	66·2	51·2	58·7	− 1·2	3	0·53	−0·02	44	38
	Cambridge	70	44	67·1	50·1	58·6	− 1·8	4	0·59	+0·10	31	27
	Rothamsted	67	44	64·1	48·2	56·2	− 3·7	5	1·81	+1·25	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	76	47	68·3	50·0	59·2	− 0·2	5	1·83	+1·28	*	*
	Loughborough	71	47	67·3	49·6	58·5	− 1·4	5	1·56	+0·98	*	*
	Leicester	72	47	66·6	49·3	58·0	− 1·9	6	1·84	+1·24	32	27
	Birmingham (Oscott)	69	45	64·1	48·3	56·2	− 3·1	5	1·23	+0·63	*	*
	Cheadle ℔	66	44	62·2	48·0	55·1	− 3·2	5	1·35	?	*	*
	Churchstoke ℔	66	43	62·9	48·9	55·9	− 2·9	6	0·65	?	31	26
	Hereford ℔	68	43	64·6	46·7	55·7	− 3·9	6	0·85	+0·43	*	*
	Cirencester	67	43	63·1	46·1	54·6	− 4·9	5	1·28	+0·71	30	26
	Oxford	67	46	64·0	50·6	57·3	− 2·8	5	1·46	+0·96	29	25
5. ENGLAND, S.	London†	69	47	66·7	50·4	58·6	− 2·6	3	0·43	−0·10	27	24
	Marlborough ℔	66	43	63·3	47·9	55·6	− 3·7	5	2·38	+1·93	32	28
	Strathfield Turgiss ℔	70	42	66·5	47·6	57·1	− 2·5	3	0·66	+0·21	*	*
	Dover	64	51	62·3	54·1	58·2	− 1·4	3	0·34	−0·10	*	*
	Hastings (St. Leonard's)	63	49	61·2	53·3	57·3	− 1·9	4	1·04	+0·71	*	*
	Southampton	68	47	65·2	51·1	58·2	− 1·6	4	1·24	?	39	34
	Hurst Castle	65	51	62·6	53·9	58·3	− 1·3	4	1·01	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	64	44	61·4	48·7	55·1	− 0·3	4	1·72	?	*	*
	Glasgow	67	46	63·3	48·7	56·0	− 0·6	5	1·66	+0·96	34	28
	Ardrossan	64	45	61·4	48·1	54·8	− 2·5	5	1·10	+0·58	*	*
	Silloth (Cumberland)	68	44	64·9	47·1	56·0	− 2·0	6	0·73	+0·28	50	42
	Douglas (Isle of Man)	65	46	60·5	49·1	54·8	− 2·1	3	1·10	+0·70	50	50
7. ENGLAND, N.W.	Barrow-in-Furness	66	47	61·6	50·7	56·2	− 2·3	6	1·50	?	*	*
	Stonyhurst	67	47	62·4	48·8	55·6	− 2·2	5	1·42	+0·64	27	23
	Blackpool ℔	68	45	62·3	49·3	55·8	− 3·1	5	1·16	+0·66	37	31
	Manchester	66	47	62·1	48·9	55·5	− 3·2	5	1·51	+0·85	*	*
	Liverpool Obsy (Bidston)	67	47	63·7	49·9	56·8	− 2·1	6	1·33	+0·75	*	*
	Llandudno ℔	64	46	61·7	49·6	55·7	− 3·3	6	0·75	+0·35	24	21
	Holyhead	64	50	61·4	51·0	56·2	− 2·5	6	1·18	+0·81	*	*
8. ENGLAND, S.W.	Pembroke	61	51	58·6	51·9	55·3	− 3·4	6	0·99	+0·60	66	57
	Arlington (N. Devon)	65	44	60·4	47·6	54·0	− 4·8	7	0·76	?	*	*
	Cullompton ℔	64	40	62·1	47·6	54·9	− 4·7	6	1·61	?	29	25
	Falmouth	65	49	61·4	51·6	56·5	− 2·6	6	1·30	+0·70	55	49
	Plymouth	66	50	63·2	53·0	58·1	− 1·7	6	0·75	+0·35	49	43
	Prawle Point	60	49	58·7	50·1	54·4	− 4·3	5	1·23	?	*	*
9. IRELAND, N.	Londonderry	71	41	66·0	45·5	55·8	− 1·3	7	0·65	+0·09	*	*
	Mullaghmore	65	46	61·1	50·1	55·6	− 2·2	7	1·70	?	*	*
	Markree Castle	65	41	62·5	45·7	54·1	− 3·9	7	0·89	+0·19	42	36
	Brookeborough	66	41	63·1	45·8	54·5	− 3·7	4	1·42	?	*	*
	Armagh	64	47	62·3	49·2	55·8	− 2·5	5	0·56	+0·11	49	42
	Donaghadee	64	46	60·6	50·0	55·3	− 2·7	4	0·33	?	*	*
10. IRELAND, S.	Dublin	65	48	62·2	51·3	56·8	− 1·7	7	0·85	+0·25	46	39
	Parsonstown	65	44	61·3	46·9	54·1	− 4·3	5	0·90	+0·40	52	44
	Waterford										*	*
	Roche's Point	64	46	61·4	48·9	55·2	− 3·7	6	1·22	+0·66	*	*
	Valencia	63	46	60·3	48·0	54·2	− 3·2	7	1·01	+0·31	58	50
	Foynes	64	44	59·2	46·1	52·7	− 4·9	6	2·20	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JULY 3, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	76	44	66	50	58	1 above.	3	5	1 more.	52	43
	2. ENGLAND, N.E.	75	44	65	51	58	0 (average).	2	3	2 less.	44	38
	3. ENGLAND, E.	76	45	69	51	60	1 below.	0	0	6 less.	43	38
	4. MID. COUNTIES	77	43	71	51	61	1 above.	2	3	4 less.	42	37
	5. ENGLAND, S.	77	44	69	53	61	0 (average).	2	1	3 less.	38	34
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	75	45	68	51	59	2 above.	3	9	0 (average).	49	42
	7. ENGLAND, N.W.	73	44	67	53	60	1 above.	2	3	3 less.	57	50
	8. ENGLAND, S.W.	74	44	65	53	59	1 below.	3	3	2 less.	45	41
	9. IRELAND, N.	77	41	68	52	60	1 above.	5	8	2 more.	36	32
	10. IRELAND, S.	75	45	66	53	60	1 above.	3	3	2 less.	41	36

General Remarks.

Weather has been much drier and finer than of late, though a few thunderstorms were experienced in different parts of the Kingdom, accompanied in some places by rather heavy rain.

Temperature has been a little above the mean over Ireland and Scotland, the "Midland Counties", and in "England, N.W.", and about equal to the average in "England, N.E." and "England, S.", but in the S.W. and E. of England it has been slightly below. The maxima were higher than those recently observed, and ranged from 73° in "England, N.W." to 77° over central and southern England as well as in the N. of Ireland. The minima, which were recorded on June 27th in Ireland and on July 1st at most of the English stations, varied from 41° in "Ireland, N." to 45° in "England, E.", "Scotland, W.", and "Ireland, S."

Rainfall has been a little more than the mean in the E. of Scotland and N. of Ireland, but in most other districts the fall was less than the mean. In "England, E." and "England, S." there was almost a complete absence of rain.

Bright sunshine shows an increase in all except the Irish districts and "England, S.W."; the percentages ranging from 50 in "England, N.W." to 32 in "Ireland, N."

Depressions observed.—The barometer has been higher and more uniform over our Islands than for some time past. The winds have been generally very light in force and variable in direction. At the close of the period, however, owing to the advance of a depression from the Atlantic, the barometer was falling decidedly in the W. and N. and the wind had shifted to the westward or south-westward on all our coasts.

Erratum.—On page 1 of last week's report the date was erroneously printed as June 25th, instead of June 26th.

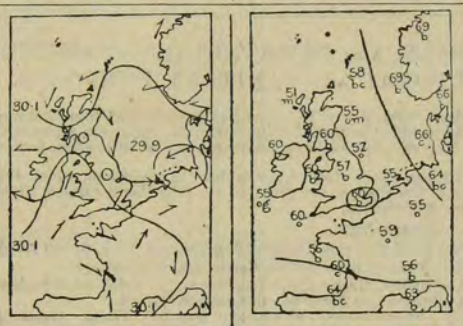
R 2745. 470.—7/82. Wt. 233. E. & S.

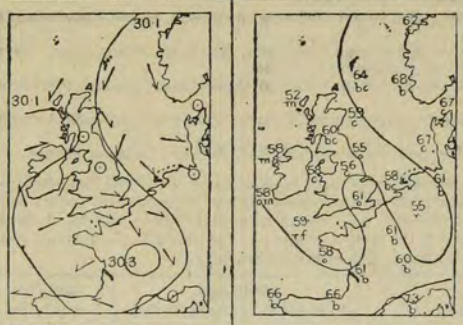
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending July 3, 1882.

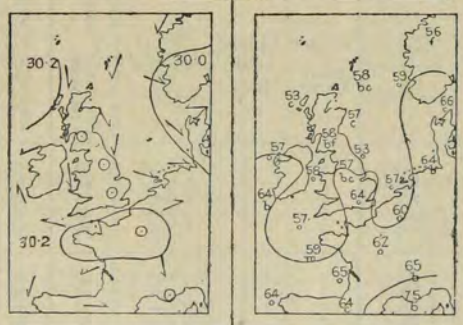
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 27.

Weather fair generally, but dull and gloomy on our extreme S.W. coasts. Cloud area subsequently extending northwards, and slight rain falling at many western stations.

Temperature changed rather irregularly; readings ranging from 62° at Dover to 51° at Stornoway. Maxima slightly exceeding 70° in central England, and reaching 73° in London.

Wind light north-westerly over Great Britain, but south-westerly in the S.W. and south-easterly at Valencia. South-westerly breezes setting in at all western stations later.

Sea slight or smooth generally.

Barometer falling decidedly in Netherlands and slightly at Valencia; rising elsewhere. Anticyclone shown over France and depression of previous day over Netherlands, with new disturbance approaching S.W. coasts. Little change later.

Wednesday, June 28.

Weather fine in France, cloudy over our Islands, with rain and fog at Scilly. Rain extending to Prawle Point and Jersey later, but little change elsewhere.

Temperature not much changed; readings ranging from 64° in the Shetlands and 63° at Cambridge to 52° at Stornoway. Maxima slightly lower than on previous day—highest 71° in London.

Wind still north-westerly in E. and N., westerly in S., and south-westerly in E. Becoming very variable in evening.

Sea slight or smooth generally.

Barometer falling Scandinavia, rising slightly elsewhere. Anticyclone still holding over France, with large area of low pressure over Sweden and Denmark, but readings in our Islands very uniform. Mercury falling in France later, but no other change.

Thursday, June 29.

Weather cloudy and misty generally, with rain in the S. of England. The rain in the S. ceasing later and the sky clearing in many places.

Temperature fallen Scandinavia and Denmark, changed irregularly our Islands; readings ranging from 64° over central England to 52° at Wick. Maxima 74° at Cambridge and 75° at York, but only 67° in London.

Wind fresh north-easterly in Scandinavia and light north-westerly over North Sea, very variable elsewhere. Little change later.

Sea smooth.

Barometer falling at the continental stations, rising over our Islands. Anticyclone over France apparently breaking up, but low pressure area still over Sweden, with uniform pressures in British Isles. No important change later.

Friday, June 30.

Weather dull in the S.E. of England and over France, fair elsewhere. Improving considerably in S.E. later, and becoming fair generally.

Temperature fallen over Denmark and south-eastern England, risen elsewhere; readings ranging from 65° at Parsonstown to 53° at Yarmouth. Thermometer subsequently rising to 75° at Loughborough and Parsonstown, but maximum in London only 61°.

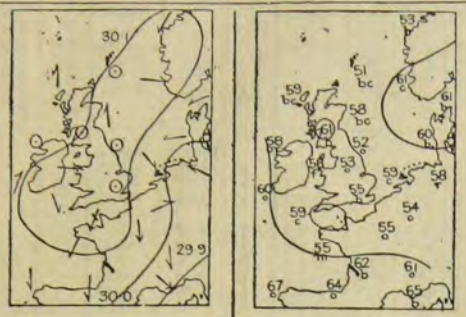
Wind light generally and somewhat variable in direction, but northerly at the majority of stations. Little change later.

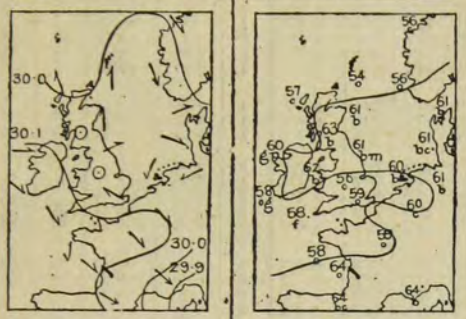
Sea rather rough Sumburgh Head, moderate or smooth elsewhere.

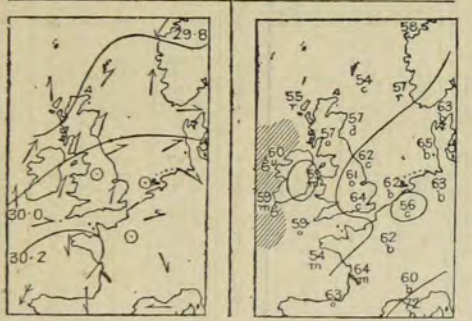
Barometer falling in S., rising slightly elsewhere. Anticyclone over France quite disappeared, and small shallow depression now over eastern part of Channel. Pressure very uniform but irregularly distributed.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 1.

Weather fine generally, but foggy or misty in the W. and hazy in the S. Sky clouding over in western districts later.

Temperature fallen slightly and very irregularly distributed. As high as 62° at Liverpool and Prawle Point, but only 52° at Loughborough and 51° at Sumburgh Head. Highest maxima 72° in London and 74° at Loughborough.

Wind light, southerly in Scotland, but northerly or variable airs elsewhere. Shifting to westward in W. and S. later, but remaining moderate in strength.

Sea smooth generally.

Barometer rising in S. of England and N. of France; falling elsewhere. Large anticyclone covering the British Isles and northern part of North Sea. Slight fall taking place generally later.

Sunday, July 2.

Weather generally fair, but cloudy in some places. Very little change during day.

Temperature risen somewhat, and readings ranging from 63° at Nairn and Androssan to 54° in the Shetlands. Subsequently rising to between 72° and 74° over Central England and to 76° at Leith.

Wind light or moderate north-westerly at the Continental and south-western stations, very light and variable elsewhere. North-westerly or westerly breezes setting in on all western and southern coasts later.

Sea smooth generally.

Barometer rising over France and our southern coasts, falling slightly elsewhere. Pressure very uniform, but highest to the south-westward of our islands and lowest in Sweden. Rise of mercury taking place in W. as well as S. later.

Monday, July 3.

Weather fair over France and the S. of England, cloudy in the W. and N., with rain over Scotland and the N. of England. Rain in N. ceasing later, but little other change.

Temperature changed irregularly; readings ranging from 66° at Cambridge to 54° in the Shetlands. Highest maxima 74° at Oxford, 75° at Cambridge, and 77° in London.

Wind light westerly in S., moderate or fresh south-westerly in W. and N. South-westerly winds becoming general later.

Sea rough off the W. of Ireland, slight or smooth elsewhere.

Barometer rising over France and the S. of England, falling elsewhere, briskly in N.W. Anticyclone over Bay of Biscay and shallow depression off the W. of Scotland. Former dispersing somewhat later, and depression moving away north-eastwards.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	69	45	60·4	49·0	54·7	+2·0	2	0·12	−0·18	*	*
	Stornoway	66	46	59·7	49·4	54·6	+0·7	3	0·51	−0·24	40	33
	Wick	65	45	60·3	49·3	54·8	+0·5	2	0·50	+0·10	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	53	63·0	54·9	59·0	−1·4	3	0·56	0·00	*	*
	Jersey (Noirmont)	68	51	64·1	53·1	58·6	−1·9	1	0·18	−0·15	39	35

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	71	44	64·7	51·1	57·9	+ 1·5	4	0·37	−0·04	*	*
	Aberdeen	68	45	65·6	49·7	57·7	+ 1·5	2	1·00	+0·58	52	43
	Leith	76	44	66·6	50·4	58·5	+ 0·9	4	0·22	−0·28	*	*
2. ENGLAND, N.E.	Alnwick Castle	70	48	62·6	51·9	57·3	+ 0·6	2	0·47	?	*	*
	Shields	69	47	61·3	49·3	55·3	− 2·3	2	0·29	−0·11	*	*
	Durham	73	47	68·8	50·2	59·5	+ 1·7	3	0·47	−0·03	44	38
	Scarborough ℳ	70	50	61·5	52·2	56·9	− 1·3	1	0·16	−0·35	*	*
	York	75	44	71·4	50·0	60·7	+ 1·0	2	0·20	−0·34		
	Spurn Head	71	50	62·1	52·1	57·1	− 1·6	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	76	49	70·6	50·4	60·5	+ 0·9	0	—	−0·53	38	33
	Yarmouth	73	50	64·0	52·7	58·4	− 2·0	0	—	−0·55	*	*
	Geldeston	75	51	68·8	51·8	60·3	− 0·2	0	—	−0·59	43	38
	Cambridge	75	45	71·1	51·0	61·1	− 0·3	1	0·02	−0·48	48	42
	Rothamsted	75	45	68·9	50·1	59·5	− 1·4	1	0·02	−0·58	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	77	47	73·1	49·6	61·4	+ 1·1	4	0·56	−0·02	*	*
	Loughborough	75	44	72·0	49·9	61·0	+ 0·2	1	0·41	−0·16	*	*
	Leicester	74	45	72·3	50·4	61·4	+ 0·7	1	0·35	−0·25	39	34
	Birmingham (Oscott)										*	*
	Cheadle ℳ	70	48	68·6	51·1	59·9	+ 0·8	3	0·26	?	*	*
	Churchstoke ℳ	72	43	67·9	47·4	57·7	− 1·4	1	0·02	?	47	41
	Hereford ℳ	77	44	73·5	50·5	62·0	+ 1·4	3	0·92	+0·44	*	*
	Cirencester	75	45	70·1	51·7	60·9	+ 0·5	2	0·08	−0·51	42	37
	Oxford	74	47	69·9	53·0	61·5	+ 0·6	1	0·01	−0·51	38	34
5. ENGLAND, S.	London†	77	47	70·4	52·7	61·6	− 0·4	1	0·03	−0·50	36	32
	Marlborough ℳ	73	45	69·6	52·2	60·9	+ 1·2	5	0·36	−0·12	35	31
	Strathfield Turgiss ℳ	76	44	73·8	50·8	62·3	+ 1·9	0	—	−0·49	*	*
	Dover	68	52	65·7	54·6	60·2	− 0·2	2	0·03	−0·42	*	*
	Hastings (St. Leonard's)	65	50	63·4	53·5	58·5	− 1·5	2	0·02	−0·33	*	*
	Southampton	74	49	70·9	54·6	62·8	+ 2·3	1	0·13	?	43	38
	Hurst Castle	69	50	65·4	54·0	59·7	− 0·5	2	0·44	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	71	48	67·0	51·4	59·2	+ 3·1	3	2·30	?	*	*
	Glasgow	73	45	68·8	51·4	60·1	+ 2·9	3	0·36	−0·41	33	28
	Ardrossan	71	46	66·1	51·4	58·8	+ 1·2	2	0·55	+0·02	*	*
	Silloth (Cumberland)	75	46	70·5	50·3	60·4	+ 1·8	2	0·88	+0·40	61	52
	Douglas (Isle of Man)	70	47	67·1	50·3	58·7	+ 1·5	4	0·24	−0·19	53	46
7. ENGLAND, N.W.	Barrow-in-Furness	69	50	66·1	54·0	60·1	+ 1·2	1	0·80	?	*	*
	Stonyhurst	73	45	69·6	50·2	59·9	+ 1·4	2	0·40	−0·41	54	47
	Blackpool ℳ	67	44	64·1	50·4	57·3	− 2·1	3	0·11	−0·48	52	45
	Manchester	71	46	69·0	50·9	60·0	+ 0·6	3	0·18	−0·52	*	*
	Liverpool Obsy (Bidston)	70	52	66·6	54·6	60·6	+ 1·0	2	0·12	−0·58	*	*
	Llandudno ℳ	70	51	68·1	54·3	61·2	+ 1·6	1	0·07	−0·38	65	57
	Holyhead	67	51	64·1	53·6	58·9	− 0·1	3	0·48	+0·13	*	*
8. ENGLAND, S.W.	Pembroke	70	50	62·3	53·6	58·0	− 1·2	2	0·17	−0·23	50	44
	Arlington (N. Devon)	69	46	60·6	50·7	55·7	− 4·0	4	0·18	?	*	*
	Cullompton ℳ	74	44	70·9	51·5	61·2	+ 0·5	4	0·30	?	39	35
	Falmouth	68	52	65·5	53·9	59·7	+ 0·1	3	0·35	−0·25	49	44
	Plymouth	72	50	68·2	54·6	61·4	+ 0·9	3	0·33	−0·15	43	39
	Prawle Point	69	49	63·4	52·4	57·9	− 1·2	1	0·22	?	*	*
9. IRELAND, N.	Londonderry	77	44	70·6	49·5	60·1	+ 2·4	4	1·03	+0·42	*	*
	Mullaghmore	69	55	66·0	56·3	61·2	+ 2·7	5	0·90	?	*	*
	Markree Castle	72	41	67·7	50·4	59·1	+ 0·4	6	0·53	−0·15	29	25
	Brookeborough	75	43	68·6	50·9	59·8	+ 0·9	4	0·93	?	*	*
	Armagh	71	47	67·4	52·6	60·0	+ 0·9	5	0·94	+0·39	44	38
	Donaghadee	70	48	64·7	51·4	58·1	− 0·1	5	0·26	?	*	*
10. IRELAND, S.	Dublin	70	48	67·6	54·6	61·1	+ 2·1	4	0·49	−0·11	45	39
	Parsonstown	75	45	69·1	52·4	60·8	+ 1·9	2	0·20	−0·33	43	38
	Waterford										*	*
	Roche's Point	68	50	64·9	53·6	59·3	− 0·3	2	0·40	−0·18	*	*
	Valencia	68	45	64·6	51·6	58·1	+ 0·1	4	0·31	−0·45	35	31
	Foynes	72	52	65·4	53·6	59·5	+ 1·2	3	0·25	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JULY 10, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Amwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	68	46	65	52	58	1 above.	6	10	5 more.	40	33
	2. ENGLAND, N.E.	71	45	66	52	59	0 (average).	6	7	1 more.	39	33
	3. ENGLAND, E.	71	40	67	51	59	2 below.	7	8	3 more.	50	44
	4. MID. COUNTIES	70	43	65	50	58	3 below.	7	11	7 more.	44	38
	5. ENGLAND, S.	70	46	64	53	59	3 below.	7	9	4 more.	43	38
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	67	47	63	52	58	0 (average).	4	7	1 more.	46	39
	7. ENGLAND, N.W.	65	46	63	52	57	2 below.	5	15	8 more.	44	37
	8. ENGLAND, S.W.	67	44	62	52	57	4 below.	7	15	9 more.	51	46
	9. IRELAND, N.	72	46	64	51	58	2 below.	7	10	4 more.	30	25
	10. IRELAND, S.	68	45	63	51	57	3 below.	7	13	6 more.	40	35

General Remarks.

Weather has been very cloudy and unsettled with frequent thunderstorms and heavy rain.

Temperature has been slightly above the mean in "Scotland, E." and about equal to it in "Scotland, W." and "England, N.E.", but in all other districts it has been from 2° to 4° below its normal value. The maxima were very low for the season, and ranged from 65° in "England, N.W." to 72° in "Ireland, N." In some parts of the S. and S.W. of England on the 4th the thermometer did not exceed 59°. The minima, which were generally registered towards the close of the period, were as low as 40° in "England, E.", and from 43° to 47° elsewhere.

Rainfall has been more than the mean in all districts, the excess in the western parts of England being very large. At Arlington (N. Devon) and Manchester more than three inches of rain was measured.

Bright sunshine shows a slight increase in most of the English districts, but a decrease over Ireland and Scotland. The percentage was greatest (46) in "England, S.W." and least (25) in "Ireland, N."

Depressions observed.—The barometer has been comparatively high over France and Scandinavia, while over our Islands, owing to the passage of several small depressions from S.W. to N.E., it has been low and unsteady. The wind has been generally south-westerly to southerly and light to moderate in force; but on the 6th and 7th it blew a moderate to fresh gale from the westward at many of our southern and western stations, while in the extreme N. of Scotland a light easterly breeze was experienced.

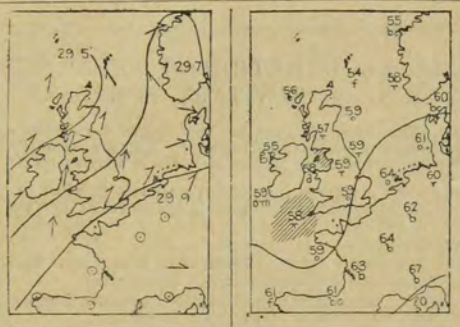
R 2840. 470.—7/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending July 10, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, July 4.

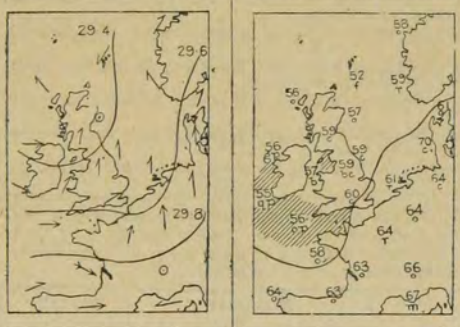
Weather fine in France, cloudy elsewhere, with rain at many of our western and northern stations. Rain falling in most places later, but weather improving somewhat in W.

Temperature risen N., fallen slightly elsewhere; ranging from 63° at Yarmouth to 54° at Sumburgh Head. Maxima highest in E. and N., and thermometer reaching 71° at Yarmouth.

Wind south-westerly generally; light in N., moderate or fresh in S. Little change during day.

Sea rough Scilly; moderate or smooth elsewhere.

Barometer falling generally. Readings highest S.E. of France, with shallow depressions over Sweden and to the westward of Scotland. Subsidiary disturbances appearing in S. later, and barometric fall continuing.



Wednesday, July 5.

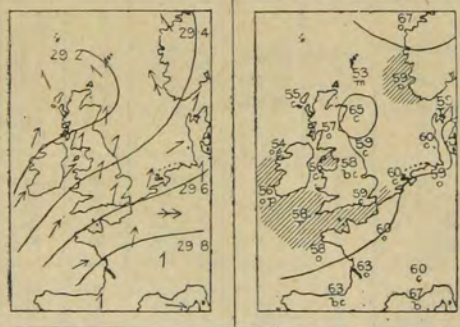
Weather cloudy generally, with rain at Leith and passing showers at Valencia and Scilly. Showers in all places later, with thunderstorms over central England.

Temperature little changed; readings ranging from 62° at Dover to 52° in the Shetlands. Highest maximum recorded, 68° at Leith, Cambridge, and Yarmouth.

Wind fresh or strong westerly over France and our southern districts, moderate southerly in E., and light north-easterly in extreme N. Little change during day.

Sea rough in S.W. and S.

Barometer rising Sweden, still falling elsewhere. Large area of low pressure over Scotland and subsidiary depressions passing across Ireland and England. Mercury rising in W. and S. later.



Thursday, July 6.

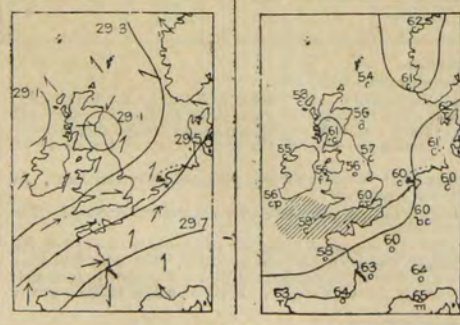
Weather still cloudy and showery generally. Thunderstorms occurring over our north-eastern districts in course of day.

Temperature changed irregularly; readings ranging from 65° at Aberdeen to 54° at Mullaghmore and 53° in the Shetlands. Maximum only 64° in London, but 67° at Aberdeen and Cambridge and 68° at Loughborough.

Wind south-westerly at all but extreme northern stations, where south-easterly. Strong in force in S., and slight gale Hurst Castle. Veering towards W. in S.W. later, and increasing to gale at Scilly.

Sea rough S.W. and S.

Barometer rising a little in S.E., falling elsewhere. Large area of low pressure still over northern coasts and shallow subsidiary depressions passing across southern. Mercury falling all day.



Friday, July 7.

Weather cloudy, with steady rain at some northern stations and showers in the S. Thunderstorms occurring in S.E. later, but some improvement taking place in evening.

Temperature changing irregularly; readings ranging from 61° at Ardrossan to 50° at Donaghadee. Maxima again low, highest being 67° at Leith, Loughborough, and in London.

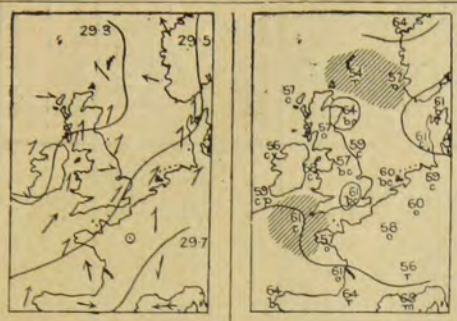
Wind strong south-westerly on southern coasts, light south-easterly in extreme N. Little change later.

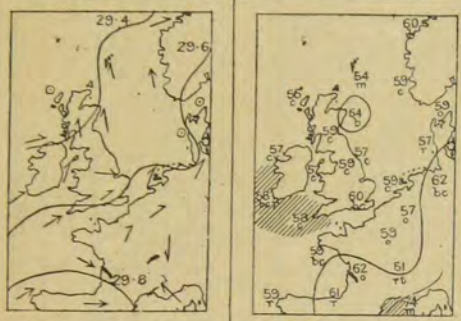
Sea rough in Channel.

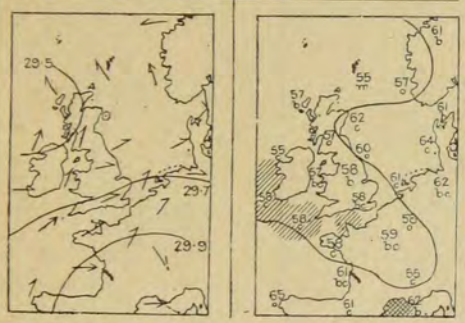
Barometer rising in extreme N., falling elsewhere. Large depression off W. of Scotland, and small subsidiary disturbance near Firth of Forth. Latter moving northward later, and mercury rising slowly generally.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 8.

Weather dull and rainy W. of France, fair most other districts. Showers falling generally later, and thunderstorms occurring in N. and E.

Temperature fallen France, risen slightly elsewhere; readings ranging from 64° at Aberdeen to 54° at Sumburgh Head and Parsonstown. Highest maxima 70° at Spurn Head, Loughborough, and Cambridge.

Wind moderate south-westerly in the more southern districts, but south-easterly in the N. Scarcely any change during day.

Sea rough in extreme N. and S.W.

Barometer falling over France, rising elsewhere. Pressure highest Gulf of Bothnia, lowest off our N.W. coasts. Small depression appearing over Bay of Biscay. Depression travelling eastward later and barometer rising generally.

Sunday, July 9.

Weather fair generally, but showery at some western stations. Showers of hail or rain falling in all places later, with thunderstorms in some places.

Temperature falling slightly; readings ranging from 64° at Aberdeen to 55° at Parsonstown and 54° in the Shetlands. Highest maximum 68°, registered in London.

Wind light or moderate from W. or S.W. generally, but still south-easterly in extreme N. Wind freshening somewhat in southern districts later.

Sea rough Valencia and Scilly, slight or smooth elsewhere.

Barometer rising generally. Area of high readings over Gulf of Bothnia and N. of Spain, with shallow depression off our N.W. coasts. Barometer rising generally all day, and general distribution unaltered.

Monday, July 10.

Weather fair most places, but becoming cloudy and showery later, with thunder in some localities.

Temperature little changed; readings ranging from 62° at Aberdeen to 55° at Sumburgh Head and Mullaghmore. Highest maxima 68° at Nairn, York, and in London, 69° at Cambridge.

Wind south-easterly in N. of Scotland, westerly or south-westerly elsewhere. Fresh or strong in force at some southern stations. South-westerly winds extending to northern coasts later.

Sea rough on some parts of our S.W. and S. coasts.

Barometer falling S. of Sweden, rising elsewhere. Relatively high readings over Gulf of Bothnia and S.E. of France, with shallow depression still off our N.W. coasts. Mercury continuing to rise slowly later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	69	50	59·6	51·0	55·3	+2·1	5	0·37	+0·09	•	•
	Stornoway	64	44	61·9	50·7	56·3	+1·9	4	0·22	−0·51	51	41
	Wick	65	45	61·4	49·6	55·5	+0·5	5	2·17	+1·77	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	64	51	62·1	53·4	57·8	−2·8	7	1·85	+1·29	•	•
	Jersey (Noirmont)	65	53	62·3	54·1	58·2	−3·0	6	1·51	+1·13	36	32

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	68	47	64·4	52·6	58·5	+ 1·5	7	0·76	+0·29	*	*
	Aberdeen	67	48	64·9	51·3	58·1	+ 1·2	4	0·89	+0·39	40	33
	Leith	68	46	65·9	51·1	58·5	+ 0·2	7	1·30	+0·77	*	*
2. ENGLAND, N.E.	Alnwick Castle	68	45	65·3	49·6	57·5	+ 0·2	4	0·18	?	*	*
	Shields	67	47	65·0	52·7	58·9	+ 0·8	6	1·00	+0·54	*	*
	Durham	71	45	67·0	49·9	58·5	0·0	6	0·35	−0·19	39	33
	Scarborough ℳ	67	51	65·4	53·5	59·5	+ 0·5	7	1·03	+0·47	*	*
	York	68	49	66·4	51·3	58·9	− 1·5	6	1·09	+0·57	?	?
	Spurn Head	70	51	66·7	53·3	60·0	+ 0·2	7	0·25	?	*	*
3. ENGLAND, E.	Hillington ℳ	70	47	67·8	51·2	59·5	− 1·0	7	1·18	+0·61	48	41
	Yarmouth	71	50	66·3	53·3	59·8	− 1·2	7	0·70	+0·13	*	*
	Geldeston	70	49	66·9	52·4	59·7	− 1·5	7	0·78	+0·26	52	46
	Cambridge	70	46	67·3	50·4	58·9	− 3·4	5	0·53	+0·01	50	44
	Rothamsted	67	40	65·3	49·6	57·5	− 3·9	7	0·93	+0·33	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)										*	*
	Loughborough	70	47	67·1	53·1	60·1	− 1·1	7	1·12	+0·57	*	*
	Leicester	70	47	68·3	51·7	60·0	− 1·4	7	0·80	+0·21	46	40
	Birmingham (Oscott)	68	45	65·0	49·9	57·5	− 3·6	7	0·74	+0·12	*	*
	Cheadle ℳ	63	45	62·5	48·5	55·5	− 4·4	7	1·29	?	*	*
	Churchstoke ℳ	66	48	63·2	50·5	56·9	− 2·9	7	0·90	?	38	33
	Hereford ℳ	69	45	67·0	49·5	58·3	− 3·1	6	0·77	+0·25	*	*
	Cirencester	66	43	62·4	48·4	55·4	− 5·6	7	1·97	+1·36	41	36
	Oxford	65	48	63·9	51·4	57·7	− 3·8	6	1·38	+0·84	50	44
5. ENGLAND, S.	London†	68	48	66·4	52·4	59·4	− 3·0	7	0·94	+0·39	35	31
	Marlborough ℳ	65	46	63·2	50·2	56·7	− 3·7	7	1·73	+1·23	45	40
	Strathfield Turgiss ℳ	70	47	66·6	50·6	58·6	− 2·5	6	0·65	+0·15	*	*
	Dover	64	53	62·7	56·4	59·6	− 1·5	7	0·70	+0·24	*	*
	Hastings (St. Leonard's)	63	53	61·9	55·5	58·7	− 2·0	7	0·53	+0·16	*	*
	Southampton	66	51	63·9	53·3	58·6	− 2·6	7	1·01	?	50	44
	Hurst Castle	64	51	62·7	54·3	58·5	− 2·3	5	0·70	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	65	47	63·2	50·8	57·0	+ 0·3	5	0·95	?	*	*
	Glasgow	66	49	63·9	51·9	57·9	+ 0·1	4	1·03	+0·23	29	24
	Ardrossan	64	50	62·1	53·1	57·6	− 0·2	4	0·22	−0·35	*	*
	Silloth (Cumberland)	67	49	65·5	52·2	58·9	− 0·6	5	1·04	+0·53	59	50
	Douglas (Isle of Man)	65	52	61·7	53·2	57·5	+ 0·1	4	0·28	−0·20	49	42
7. ENGLAND, N.W.	Barrow-in-Furness	65	52	62·3	54·4	58·4	− 0·9	5	0·90	?	*	*
	Stonyhurst	65	47	63·1	50·5	56·8	− 2·3	6	2·40	+1·53	38	32
	Blackpool ℳ	64	48	62·8	51·9	57·4	− 2·5	5	1·11	+0·45	53	45
	Manchester	63	46	62·2	50·0	56·1	− 4·1	7	3·37	+2·66	*	*
	Liverpool Obsy (Bidston)	65	49	63·6	51·9	57·8	− 2·5	5	1·39	+0·61	*	*
	Llandudno ℳ	65	50	63·6	53·2	58·4	− 1·8	4	0·61	+0·14	40	34
	Holyhead	64	53	61·0	53·4	57·2	− 2·1	3	0·48	+0·14	*	*
8. ENGLAND, S.W.	Pembroke	60	52	59·0	53·7	56·4	− 3·3	7	0·78	+0·36	60	53
	Arlington (N. Devon)	62	47	60·3	49·3	54·8	− 5·6	7	3·71	?	*	*
	Cullompton ℳ	65	44	63·3	48·1	55·7	− 5·6	7	1·30	?	38	34
	Falmouth	64	51	62·0	52·8	57·4	− 3·1	7	1·38	+0·78	58	52
	Plymouth	67	54	64·6	54·8	59·7	− 1·7	5	0·73	+0·19	49	44
	Prawle Point	62	51	60·3	52·1	56·2	− 3·4	7	0·81	?	*	*
9. IRELAND, N.	Londonderry	72	46	67·5	49·5	58·5	+ 0·2	7	1·42	+0·74	*	*
	Mullaghmore	63	51	62·1	53·1	57·6	− 1·6	7	0·91	?	*	*
	Markree Castle	67	46	64·4	48·6	56·5	− 2·9	7	0·46	−0·17	26	22
	Brookeborough	65	47	63·4	49·5	56·5	− 3·2	7	1·75	?	*	*
	Armagh	66	50	63·2	52·3	57·8	− 1·9	7	0·81	+0·16	33	28
	Donaghadee	68	48	63·9	51·9	57·9	− 0·4	6	0·80	?	*	*
10. IRELAND, S.	Dublin	68	52	65·4	53·5	59·5	− 0·0	7	0·83	+0·27	38	33
	Parsonstown	65	45	63·7	48·7	56·2	− 3·2	7	1·17	+0·59	37	32
	Waterford										*	*
	Roche's Point	64	49	61·6	51·7	56·7	− 3·6	7	1·72	+1·12	*	*
	Valencia	64	49	62·1	51·7	56·9	− 1·8	7	1·39	+0·59	45	39
	Foynes	62	47	60·6	49·5	55·1	− 4·3	7	1·25	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JULY 17, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	71	45	67	52	59	1 above.	5	8	3 more.	59	50
	2. ENGLAND, N.E.	73	45	67	53	60	0 (average).	6	8	3 more.	48	41
	3. ENGLAND, E.	73	47	68	53	61	2 below.	4	11	5 more.	38	34
	4. MID. COUNTIES	73	46	67	53	60	2 below.	7	15	9 more.	31	27
	5. ENGLAND, S.	73	51	67	56	61	1 below.	6	11	6 more.	38	35
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	71	50	64	54	59	1 above.	7	21	14 more.	36	31
	7. ENGLAND, N.W.	70	46	64	54	59	1 below.	6	14	7 more.	31	27
	8. ENGLAND, S.W.	70	50	63	54	59	3 below.	6	21	15 more.	29	26
	9. IRELAND, N.	70	44	64	52	58	2 below.	7	15	8 more.	21	18
	10. IRELAND, S.	67	48	65	53	58	2 below.	7	20	13 more.	28	25

General Remarks.

Weather has again been very showery and unsettled, with frequent thunderstorms over the northern half of the Kingdom, and heavy rains in places.

Temperature has been a trifle above the mean in Scotland, but below it over the greater part of England and Ireland, the deficit being most marked in "England, S.W." In "Ireland, S." the thermometer has not risen above 67° all the week, but in Scotland and the W. of England it has reached 70° or 71°, and in the eastern, southern, and midland counties it has risen to 73°. The lowest readings reported have varied between 51° in "England, S." and 44° in "Ireland, N."

Rainfall has been more than the mean in all districts. In Scotland and the N.E. of England the excess has been small, but in other places it has been very considerable, and in the "Midland Counties", "Scotland, W." and Ireland rain has fallen every day.

Bright sunshine has been very deficient, the percentage of possible duration being greatest (50) in "Scotland, E.", and least (only 18) in "Ireland, N."

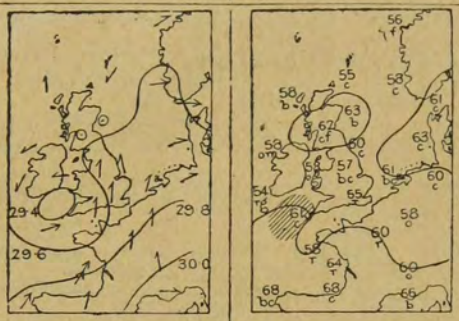
Depressions observed.—On the 11th, a small but well defined depression passed in an easterly or east-north-easterly direction across the S. of England, and in its rear the barometer rose generally and the wind veered to N.W. On the afternoon of the 12th, however, the barometer began to fall again on our western coasts, and from that time until the close of the period a series of depressions has passed in a northerly direction outside the Irish and Scotch coasts, while numerous subsidiary disturbances have advanced over the country. South-westerly to southerly winds have consequently prevailed generally.

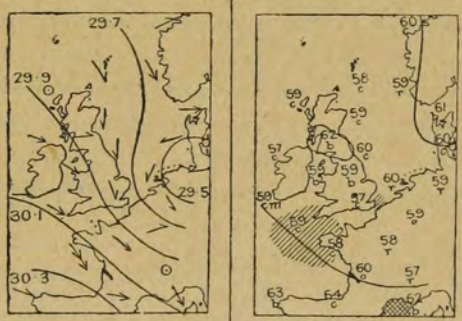
R 2940. 470.—7/82. Wt. 233. E. & S.

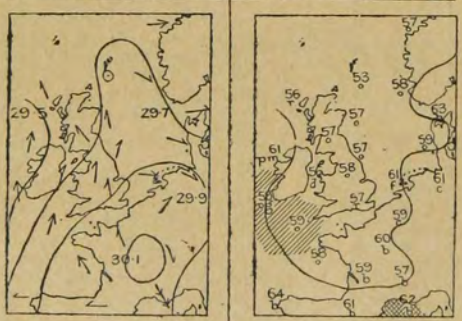
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending July 17, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, July 11.

Weather dull, cold, and very rainy at all but our extreme northern and north-eastern stations. Thunderstorms occurring very generally during the day.

Temperature fallen except in Scotland. Maximum readings ranging from 60° to 65° in our Islands.

Wind completely cyclonic in direction; viz., southerly to south-easterly over England, north-easterly in Ireland, south-westerly over the Bay of Biscay, but only moderate to fresh in force. Wind shifting to N. and N.W. over England later in day.

Sea rough in the S. and S.W.

Barometer highest over southern Europe. Well-marked depression advancing eastwards over our south-western and southern districts during day.

Wednesday, July 12.

Weather fine at first except at our extreme south-eastern stations, but subsequently becoming unsettled in the W., with rain in several places and thunderstorms in the N.W.

Temperature low in early morning, but subsequently increasing quickly. Maxima recorded of 73° at York and 70° over our southern counties.

Wind fresh from the north-westward, but backing during the day, and beginning to increase from the southward over the S. of Ireland towards evening.

Sea moderate to smooth; increasing in the far W. towards night.

Barometer rising in most places; depression of 11th now over N. Germany, but a new one appearing off our western coasts in evening.

Thursday, July 13.

Weather again dull, gloomy, wet, and unsettled; improving a little in the S.E. later, but very unseasonable.

Temperature decreasing; maximum readings below 70° all over the Kingdom and in some places below 60°.

Wind southerly and south-westerly, fresh to strong in force; very little change during day.

Sea rough in S.W. and W.

Barometer highest over France and the North Sea; depression off our western coasts passing north-eastwards.

Friday, July 14.

Weather cloudy in morning, with rain in the W. Very showery day over the country generally.

Temperature rising slightly, and reaching 70° or 71° during the afternoon over the southern, midland, and eastern parts of England.

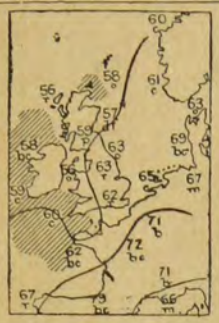
Wind still southerly and south-westerly, fresh to strong. Blowing a gale from S. at the mouth of the Channel during the afternoon and evening.

Sea rough S. and W.

Barometer highest France, Germany, and Denmark, lowest off our N.W. coasts. Subsidiary depressions passing over us during the day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 15.

Weather again unsettled and showery in all districts, but rainfall less heavy than on 14th. Thunderstorms over France.

Temperature little changed; maximum readings scarcely so high as on 14th, but nevertheless slightly exceeding 70° at one or two English stations.

Wind south-westerly over England and Ireland, south-easterly in Scotland—strong in force. The south-easterly wind subsequently veering to S., and force decreasing generally.

Sea rough in the W. and S.W.

Barometer highest Germany, lowest off N.W. of Ireland. Depression in N.W. travelling northwards and barometer beginning to rise.

Sunday, July 16.

Weather fine over our south-eastern districts, though cloudy in the morning; rather showery elsewhere.

Temperature not materially changed, but air dry in S.E.

Wind veering to W. in Ireland and subsequently over England also, and becoming moderate or light in force. Still southerly in the N. and E. of Scotland.

Sea still rough in the N.W., slight or smooth elsewhere.

Barometer rising generally, as the depression off our N.W. coasts travelled away to the northward.

Monday, July 17.

Weather at first fine and bright over our north-eastern, eastern, and south-eastern districts, dull and wet in Ireland. Rainy weather subsequently spreading all over the kingdom, and becoming heavy in places.

Temperature still very little changed, the maxima being 70° to 71° over our north-eastern and eastern counties, 60° to 65° in Ireland.

Wind backing to the southward again very generally, and blowing strongly on our south-western and southern coasts.

Sea rough in the Channel, slight or smooth elsewhere.

Barometer still rising in the E. and S., falling in W. A new depression appearing off the W. of Ireland, and moving north-eastwards.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	63	49	59·9	51·3	55·6	+1·8	3	0·53	+0·26	*	*
	Stornoway	66	49	62·3	52·7	57·5	+2·6	7	1·21	+0·48	29	24
	Wick	67	48	63·1	51·3	57·2	+1·5	3	0·41	+0·01	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	54	62·6	55·1	58·9	−2·0	6	1·03	+0·48	*	*
	Jersey (Noirmont)	68	53	64·3	55·4	59·9	−2·0	5	0·59	+0·19	47	43

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	70	46	66·9	52·4	59·7	+ 1·8	5	0·58	+0·05	*	*
	Aberdeen	71	47	65·1	50·9	58·0	+ 0·4	4	0·64	+0·06	59	50
	Leith	71	45	68·3	51·4	59·9	+ 0·8	7	1·20	+0·64	*	*
2. ENGLAND, N.E.	Alnwick Castle	68	47	65·7	52·4	59·1	+ 1·1	6	1·17	?	*	*
	Shields	70	47	66·3	51·6	59·0	+ 0·3	6	1·10	+0·59	*	*
	Durham	73	45	69·2	51·2	60·2	+ 0·8	6	1·25	+0·70	48	41
	Scarborough ℔	71	51	66·1	55·2	60·7	+ 0·7	5	0·61	+0·01	*	*
	York	73	48	68·6	53·1	60·9	− 1·0	5	0·63	+0·13		
	Spurn Head	71	53	67·4	55·3	61·4	+ 0·7	5	0·18	?	*	*
3. ENGLAND, E.	Hillington ℔	73	47	69·4	51·3	60·4	− 1·1	4	0·77	+0·17	43	38
	Yarmouth	69	51	65·7	54·6	60·2	− 1·5	4	1·80	+1·22	*	*
	Geldeston	70	50	68·0	54·1	61·1	− 0·8	4	1·26	+0·69	39	35
	Cambridge	71	47	69·6	53·1	61·4	− 1·9	4	0·92	+0·40	33	29
	Rothamsted	70	50	66·7	52·8	59·8	− 3·2	6	0·85	+0·24	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	72	47	69·6	53·6	61·6	− 0·7	7	1·08	+0·46	*	*
	Loughborough	72	48	68·7	53·6	61·2	− 1·6	7	0·95	+0·44	*	*
	Leicester	73	51	69·1	53·7	61·4	− 1·3	7	1·43	+0·85	35	31
	Birmingham (Oscott)	70	48	66·1	52·0	59·1	− 2·9	7	1·74	+1·12	*	*
	Cheadle ℔	68	46	64·2	50·9	57·6	− 3·4	7	1·27	?	*	*
	Churchstoke ℔	68	48	63·7	51·2	57·5	− 3·1	7	1·28	?	29	26
	Hereford ℔	70	47	67·0	52·4	59·7	− 2·6	7	1·43	+0·88	*	*
	Cirencester	68	49	64·9	52·6	58·8	− 3·0	7	2·92	+2·30	26	23
	Oxford	71	52	67·1	54·7	60·9	− 1·4	7	1·27	+0·73	33	29
5. ENGLAND, S.	London†	71	52	69·1	56·0	62·6	− 1·4	6	0·60	+0·05	35	32
	Marlborough ℔	69	51	66·1	53·1	59·6	− 1·6	7	1·57	+1·03	36	32
	Strathfield Turgiss ℔	73	51	69·2	53·7	61·5	− 0·4	5	0·63	+0·11	*	*
	Dover	68	56	65·0	57·4	61·2	− 0·7	6	0·90	+0·46	*	*
	Hastings (St. Leonard's)	70	55	64·5	56·9	60·7	− 0·8	6	1·65	+1·25	*	*
	Southampton	71	52	67·0	55·6	61·3	− 0·6	5	1·22	?	44	40
	Hurst Castle	70	53	65·6	57·1	61·4	− 0·1	5	0·93	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	68	52	64·5	54·2	59·4	+ 2·1	6	2·19	?	*	*
	Glasgow	68	52	65·5	53·7	59·6	+ 1·2	7	1·62	+0·78	34	29
	Ardrossan	68	50	62·4	54·1	58·3	+ 0·3	6	1·58	+0·96	*	*
	Silloth (Cumberland)	71	51	66·9	53·6	60·3	0·0	6	1·91	+1·36	38	33
	Douglas (Isle of Man)	65	51	62·4	53·7	58·1	+ 0·5	7	3·09	+2·57	36	31
7. ENGLAND, N.W.	Barrow-in-Furness	66	53	63·6	54·9	59·3	− 0·3	5	1·60	?	*	*
	Stonyhurst	67	48	64·9	52·1	58·5	− 1·3	6	1·11	+0·20	28	24
	Blackpool ℔	66	47	64·1	53·1	58·6	− 1·8	7	2·11	+1·41	34	30
	Manchester	68	46	64·3	52·0	58·2	− 2·8	6	1·40	+0·66	*	*
	Liverpool Obsy (Bidston)	70	50	66·0	53·9	60·0	− 1·0	7	1·12	+0·22	*	*
	Llandudno ℔	68	52	65·0	54·8	59·9	− 1·0	6	0·55	+0·05	32	28
	Holyhead	64	54	62·4	54·7	58·6	− 1·0	7	1·71	+1·35	*	*
8. ENGLAND, S.W.	Pembroke	60	51	59·4	54·6	57·0	− 3·3	6	3·17	+2·68	29	26
	Arlington (N. Devon)	65	50	62·3	52·1	57·2	− 4·5	7	2·49	?	*	*
	Cullompton ℔	68	52	65·8	54·1	60·0	− 2·1	7	1·98	?	32	29
	Falmouth	65	54	62·6	55·9	59·3	− 2·0	6	1·53	+0·92	29	26
	Plymouth	70	54	64·5	55·9	60·2	− 1·8	6	2·10	+1·49	24	22
	Prawle Point	64	51	60·7	53·4	57·1	− 3·1	6	1·06	?	*	*
9. IRELAND, N.	Londonderry	70	45	67·1	49·7	58·4	− 0·5	7	1·89	+1·15	*	*
	Mullaghmore	66	53	63·1	54·6	58·9	− 1·0	7	1·19	?	*	*
	Markree Castle	68	44	63·9	49·8	56·9	− 3·2	7	0·91	+0·31	17	15
	Brookeborough	67	47	63·2	50·6	56·9	− 3·6	6	2·01	?	*	*
	Armagh	66	49	63·5	52·3	57·9	− 2·6	7	1·28	+0·56	24	21
	Donaghadee	68	49	63·9	52·6	58·3	− 0·2	5	1·41	?	*	*
10. IRELAND, S.	Dublin	67	50	64·5	54·3	59·4	− 0·7	6	0·74	+0·19	29	26
	Parsonstown	65	48	63·7	51·9	57·8	− 2·1	7	2·00	+1·37	26	23
	Waterford										*	*
	Roche's Point	63	50	62·0	52·9	57·5	− 3·6	6	2·09	+1·46	*	*
	Valencia	64	50	62·3	52·3	57·3	− 2·0	7	3·05	+2·19	28	25
	Foynes	66	50	64·4	51·6	58·0	− 1·6	7	2·00	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JULY 24, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	68	45	65	51	58	0 (average).	5	8	2 more.	52	44
	2. ENGLAND, N.E.	71	48	66	53	59	0 (average).	6	6	0 (average).	49	43
	3. ENGLAND, E.	73	47	70	53	62	1 below.	4	3	3 less.	64	58
	4. MID. COUNTIES	72	46	67	52	59	2 below.	6	5	1 less.	47	42
	5. ENGLAND, S.	72	46	67	54	61	1 below.	4	3	2 less.	52	47
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	67	50	62	52	57	1 below.	5	13	6 more.	45	39
	7. ENGLAND, N.W.	67	43	64	53	58	2 below.	6	14	7 more.	38	33
	8. ENGLAND, S.W.	68	47	63	54	59	2 below.	6	11	5 more.	49	44
	9. IRELAND, N.	70	43	64	50	57	2 below.	7	12	5 more.	43	38
	10. IRELAND, S.	67	49	63	52	57	3 below.	7	12	5 more.	41	37

General Remarks.

Weather has been continuously showery and unsettled over all our more western and northern districts, but in the E. and S. there were two or three fine days at the commencement of the period. Thunderstorms occurred in many parts of England at the close of the week.

Temperature has been a little below the mean in all districts excepting "Scotland, E." and "England, N.E." In the grazing districts and also over the E. of Scotland the thermometer has not been above 70° all the week, and over central and southern England it has not exceeded 72°. The lowest night readings have varied between 43° in some parts of "England, N.W." and "Ireland, N.", to 48° in "England, N.E."

Rainfall has been considerably more than the mean in all the grazing districts and slightly more in "Scotland, E.", but less in the eastern, southern, and central parts of England.

Bright sunshine has been more prevalent than it was last week, especially in "England, E.", where the percentage of possible duration has been 58. In "England, N.W." the percentage has been only 33.

Depressions observed.—At the commencement of the period large depressions were passing along outside our western coasts and the winds were consequently south-westerly. In the course of Wednesday, however, the series of disturbances passed away northward, and an anticyclone formed over France, so that the wind veered to the westward generally. On Friday, the anticyclone gave way and further depressions appeared in the W. accompanied in many instances by small subsidiary disturbances which passed across England and occasioned somewhat variable breezes.

R 3016. 470.—7/82. Wt. 233. E. & S.

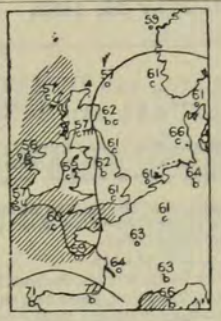
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending July 24, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, July 18.

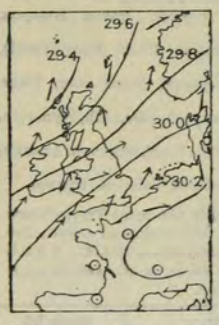
Weather rather cloudy, and subsequently becoming squally and showery except at a few of our eastern and northern stations. Thunder and lightning over our more northern districts.

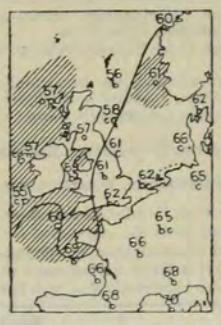
Temperature rising to about 70° over our inland districts during the day, but still low for the time of year.

Wind south-westerly to southerly; strong in the W. and N.W., moderate elsewhere.

Sea moderate to smooth—except in the W. and S.W., where rough.

Barometer highest (30·1 ins.) over the S. of France, lowest off our N.W. coasts. Depression to westward of us, moving north-eastward.





Wednesday, July 19.

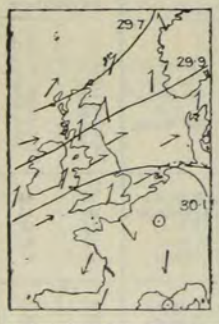
Weather finer than on the 18th, but still rather showery in the W. and N.W. No thunderstorms reported.

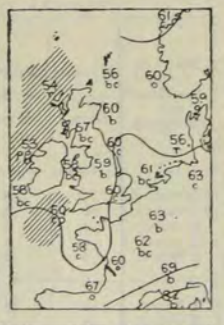
Temperature showing no important change.

Wind continuing south-westerly, and blowing strongly in the W. and N.

Sea rough in the W. and S.W., slight elsewhere.

Barometer rising everywhere; still highest (30·25 ins.) over France, lowest off our northern coasts. Depression in N. passing away from our neighbourhood.





Thursday, July 20.

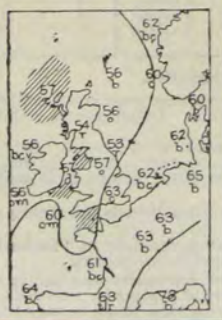
Weather continuing showery in the W. and N.W., fair in the E. and S.E., but cloudy at times.

Temperature still very little changed. Maxima over England ranging from 68° to 73°.

Wind more westerly than of late, and moderating generally in force. Backing to S.S.W. in Ireland later, and increasing in strength.

Sea rough at a few western stations, moderate to slight elsewhere; subsequently rising on our S.W. coasts.

Barometer highest (30·3 ins.) over central France, lowest off our northern coasts. Subsidiary depression appearing in W. later.



Friday, July 21.

Weather remaining changeable and unsettled; more generally showery than on 20th, but rainfall less heavy in W.

Temperature still low, and changing very little. Maxima over England continuing about 70°.

Wind varying a good deal between S. and W.N.W., but continuing light to moderate in force.

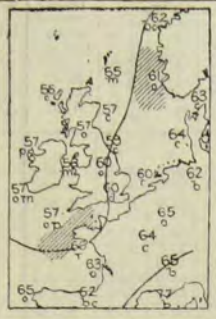
Sea rather rough at some western and southern stations, smooth in the E. and N.E.

Barometer highest (30·1 ins.) in a band lying across France and the N. of Spain, lowest in N.W. Irregularly formed depression in the N.W., moving northwards.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Saturday, July 22.

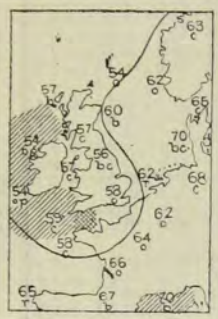
Weather changeable and at times cloudy, with rain in all districts and thunder in a few localities.

Temperature little changed, but not rising to quite the same height during the day as on the 20th; only one station reporting a maximum of 70°.

Wind westerly in the W., south-westerly to southerly elsewhere; moderate all day.

Sea slight except about the mouth of the Channel.

Barometer still highest over France and Spain and lowest to the north-westward of our Islands; subsidiary depressions passing over the United Kingdom during the day.



Sunday, July 23.

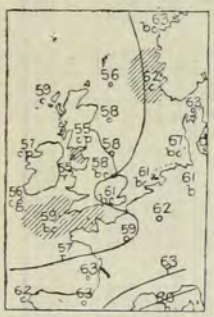
Weather remaining in a cloudy, showery, unsettled condition all over the Kingdom. Thunder in some places.

Temperature again low; maxima over England 66° to 71°, the latter value being reported in London only.

Wind veering from S. to W. and backing again in some places; light to moderate in the E., strong in W. and S.

Sea rough in the W. and S.W.

Barometer continuing highest over Spain, lowest to westward and north-westward of our Islands, where depressions appeared moving north-eastward.



Monday, July 24.

Weather again changeable, showery, and unsettled, with thunderstorms almost all over the Kingdom. Rainfall not very heavy.

Temperature not much changed; the maxima over England ranging from 64° to 69°.

Wind westerly and subsequently north-westerly; fresh generally and strong in some places; but slight in E. of Scotland.

Sea rough in the Channel.

Barometer continuing highest over Spain; depression in N. passing away to north-eastward; some subsidiary disturbances over England.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	61	49	60·6	50·7	55·7	+1·6	5	0·76	+0·48	*	*
	Stornoway	62	46	59·6	51·0	55·3	+0·3	6	0·99	+0·25	59	33
	Wick	68	49	63·9	52·6	58·3	+2·8	3	0·44	+0·04	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	52	63·7	55·1	59·4	−1·7	6	0·99	+0·47	*	*
	Jersey (Noirmont)	67	53	64·9	55·4	60·2	−1·8	4	0·49	+0·07	57	53

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	67	45	64·6	50·6	57·6	+ 0·2	4	0·40	−0·18	*	*
	Aberdeen	67	47	63·4	50·0	56·7	− 0·5	4	0·48	−0·14	52	44
	Leith	68	50	66·0	52·0	59·0	+ 0·2	7	1·40	+0·81	*	*
2. ENGLAND, N.E.	Alnwick Castle	68	48	64·7	50·7	57·7	+ 0·1	7	0·46	?	*	*
	Shields	67	50	65·1	52·1	58·6	+ 0·4	5	0·71	+0·18	*	*
	Durham	71	48	67·5	50·8	59·2	+ 0·8	7	1·10	+0·52	49	43
	Scarborough ℔	68	51	65·5	53·9	59·7	+ 0·3	6	0·47	−0·15	*	*
	York	69	49	66·1	52·1	59·1	− 2·1	5	0·39	−0·09		
	Spurn Head	71	52	67·9	55·1	61·5	+ 1·3	6	0·43	?	*	*
3. ENGLAND, E.	Hillington ℔	73	48	70·6	51·5	61·1	0·0	3	0·42	−0·15	66	59
	Yarmouth	71	52	68·9	54·6	61·8	+ 0·4	4	0·24	−0·32	*	*
	Geldeston	71	50	69·5	53·1	61·3	− 0·4	4	0·30	−0·23	65	59
	Cambridge	72	47	70·1	51·4	60·8	− 2·1	3	0·16	−0·36	62	56
	Rothamsted	71	49	68·8	51·9	60·4	− 2·1	5	0·18	−0·43	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	72	47	68·9	51·7	60·3	− 1·2	5	0·29	−0·29	*	*
	Loughborough	70	51	68·9	53·1	61·0	− 1·2	6	0·61	+0·12	*	*
	Leicester	71	50	68·6	52·7	60·7	− 1·5	7	0·46	−0·13	44	39
	Birmingham (Oscott)	71	48	66·7	51·1	58·9	− 2·8	4	0·32	−0·30	*	*
	Cheadle ℔	68	46	64·4	49·7	57·1	− 3·5	7	0·47	?	*	*
	Churchstoke ℔	69	50	65·0	51·4	58·2	− 2·2	6	0·52	?	48	43
	Hereford ℔	71	46	67·8	51·2	59·5	− 2·5	5	0·54	0·00	*	*
	Cirencester	67	47	65·3	50·4	57·9	− 3·7	5	0·79	+0·15	42	38
	Oxford	69	51	67·6	53·3	60·5	− 1·6	5	0·23	−0·31	52	47
5. ENGLAND, S.	London†	72	50	69·9	53·4	61·7	− 2·0	3	0·23	−0·31	52	47
	Marlborough ℔	68	49	66·7	51·1	58·9	− 1·9	5	0·29	−0·27	50	45
	Strathfield Turgiss ℔	72	46	69·9	51·2	60·6	− 1·2	3	0·34	−0·18	*	*
	Dover	67	54	65·9	56·9	61·4	− 0·5	6	0·19	−0·26	*	*
	Hastings (St. Leonard's)										*	*
	Southampton	67	52	66·4	54·2	60·3	− 1·7	4	0·41	?	55	50
	Hurst Castle	66	55	64·7	56·3	60·5	− 1·1	4	0·21	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	63	49	60·9	51·0	56·0	− 1·3	7	1·76	?	*	*
	Glasgow	64	50	62·5	51·1	56·8	− 1·1	6	0·88	0·00	32	28
	Ardrossan	65	50	60·6	52·4	56·5	− 1·4	6	1·85	+1·18	*	*
	Silloth (Cumberland)	67	51	64·6	53·2	58·9	− 1·2	5	1·16	+0·57	45	40
	Douglas (Isle of Man)	63	52	61·5	53·0	57·3	− 0·6	4	1·11	+0·54	57	50
7. ENGLAND, N.W.	Barrow-in-Furness	66	53	62·7	54·6	58·7	− 1·2	5	0·71	?	*	*
	Stonyhurst	66	50	63·7	51·5	57·6	− 2·2	6	2·74	+1·78	33	29
	Blackpool ℔	65	50	63·4	53·6	58·5	− 2·0	7	1·27	+0·59	47	42
	Manchester	66	43	63·3	50·4	56·9	− 3·9	7	1·05	+0·29	*	*
	Liverpool Obsy (Bidston)	67	51	65·0	53·1	59·1	− 1·8	7	0·78	−0·15	*	*
	Llandudno ℔	66	51	64·5	53·5	59·0	− 1·9	4	0·81	+0·31	33	29
	Holyhead	63	52	61·9	53·7	57·8	− 2·0	7	0·97	+0·59	*	*
8. ENGLAND, S.W.	Pembroke	61	53	60·0	55·0	57·5	− 2·3	6	0·99	+0·46	50	45
	Arlington (N. Devon)	64	49	62·1	51·1	56·6	− 4·3	7	2·25	?	*	*
	Cullompton ℔	68	47	66·2	51·0	58·6	− 3·4	6	0·67	?	45	41
	Falmouth	65	53	63·7	54·4	59·1	− 2·1	5	1·42	+0·81	55	50
	Plymouth	67	54	66·0	56·2	61·1	− 0·9	6	0·95	+0·27	44	40
	Prawle Point	63	52	61·6	54·0	57·8	− 2·2	4	0·46	?	*	*
9. IRELAND, N.	Londonderry	70	47	66·7	49·0	57·9	− 0·9	7	1·23	+0·45	*	*
	Mullaghmore	63	50	62·1	52·1	57·1	− 2·5	6	0·83	?	*	*
	Markree Castle	66	47	63·3	49·7	56·5	− 3·2	7	0·89	+0·26	46	41
	Brookeborough	65	43	63·2	49·3	56·3	− 3·7	7	1·69	?	*	*
	Armagh	65	49	62·3	51·2	56·8	− 3·2	7	1·50	+0·79	40	35
	Donaghadee	67	49	63·6	50·9	57·3	− 1·0	7	1·17	?	*	*
10. IRELAND, S.	Dublin	67	52	64·2	53·1	58·7	− 1·2	6	1·14	+0·61	45	40
	Parsonstown	66	49	63·1	50·9	57·0	− 2·7	6	0·82	+0·14	42	38
	Waterford										*	*
	Roche's Point	63	50	62·4	51·7	57·1	− 3·6	7	1·60	+0·93	*	*
	Valencia	63	52	61·4	52·7	57·1	− 2·3	7	1·43	+0·53	37	33
	Foynes	64	49	61·5	50·7	56·1	− 3·2	7	1·10	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JULY 31, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	72	45	66	50	58	0 (average).	4	3	3 less.	49	43
	2. ENGLAND, N.E.	75	43	66	51	58	1 below.	4	6	0 (average).	48	43
	3. ENGLAND, E.	77	39	69	50	59	3 below.	3	3	3 less.	50	47
	4. MID. COUNTIES	75	41	69	49	59	3 below.	3	3	2 less.	34	32
	5. ENGLAND, S.	77	43	69	52	61	1 below.	2	1	3 less.	46	43
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	70	45	63	51	57	1 below	5	10	1 more.	36	33
	7. ENGLAND, N.W.	69	42	63	52	58	3 below.	4	11	4 more.	44	40
	8. ENGLAND, S.W.	76	44	66	52	59	2 below.	2	2	5 less.	58	54
	9. IRELAND, N.	75	40	64	51	57	2 below.	4	6	1 less.	29	26
	10. IRELAND, S.	68	45	64	51	58	2 below.	4	5	2 less.	33	30

General Remarks.

Weather has again been rather unsettled and showery in the N. of England and W. of Scotland, but has improved elsewhere, and in the southern parts of the Kingdom it has been very fine with scarcely any rain.

Temperature has been about equal to the mean in "Scotland, E.", but elsewhere it has continued slightly below. The maxima were generally registered during the latter part of the period, and ranged from 77° in "England, E." and "England, S.", to 68° in the S. of Ireland. The minima, which occurred in most places on the 27th were rather low, varying from 39° over eastern England and 40° in "Ireland, N.", to 45° in Scotland and the S. of Ireland.

Rainfall has been a little more than the mean in "Scotland, W." and "England, N.W.", and equal to it in "England, N.E.", but in all other districts the fall was less.

Bright sunshine has been rather less prevalent than last week in most districts, the percentages ranging from 54 in "England, S.W." to 26 in "Ireland, N."

Depressions observed.—At the commencement of the period two depressions were shown over the North Sea and a third over Brittany. By the 27th, however, these had disappeared to the eastward, and the wind, which had been moderate from the northward, shifted to the south-westward on all our coasts and blew strongly in the W. From this time till the end of the period the barometer was highest on our southern and south-western coasts, and lowest to the northward where a few slight disturbances were passing.

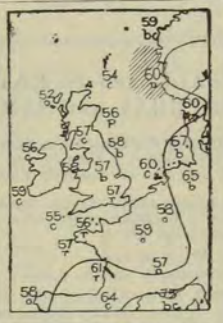
R 3103. 470.—8/82. Wt. 233. E. & S.

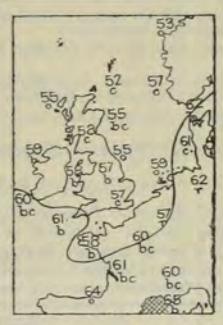
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending July 31, 1882.

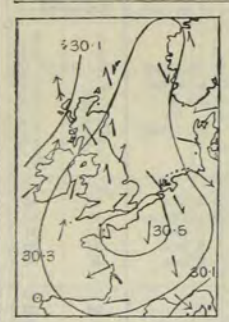
Synoptic Weather Charts.—8 a.m.

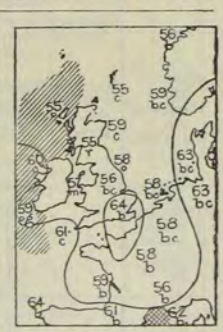
BAROMETER AND WIND.

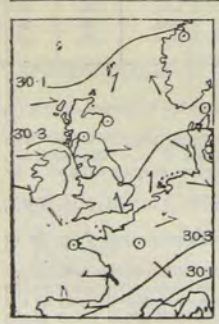
CLOUD, RAIN, SEA, AND TEMPERATURE.











Weather during the 24 hours succeeding the date of the Charts.

Tuesday, July 25.

Weather fair in Ireland and the E. of England, but showery in Scotland and rainy on our S.E. coasts. Improvement in W. extending eastward later, but weather still rainy in extreme S.E.

Temperature fallen slightly, and ranging from 60° at Cambridge to 52° at Stornoway. Maxima low generally; highest point reached in London only 63°.

Wind north-westerly or northerly in N. and W., easterly in S., southerly in W. France. Northerly breezes becoming general later.

Sea moderate or smooth.

Barometer rising at all but extreme southern stations. Readings relatively high over Gulf of Bothnia and to westward of Ireland, with shallow area of low pressure off W. of Norway, and well-defined depression over N.W. of France. Latter moving eastward later, and barometer rising generally.

Wednesday, July 26.

Weather fair generally in morning, but becoming dull and rainy on our extreme W. coasts in evening.

Temperature changed irregularly, and readings ranging from 62° at Prawle Point to 52° in the Shetlands. Highest maxima 69° at Loughborough and Hurst Castle, and 70° in London.

Wind calm or variable in Ireland, moderate northerly and north-westerly elsewhere. Southerly breezes setting in over Ireland and Scotland towards evening.

Sea slight or smooth.

Barometer rising generally, and depression of previous day quite disappeared. Anticyclone appearing in W. and advancing eastwards later, with fresh fall of barometer in W. of Ireland.

Thursday, July 27.

Weather still fine at all but our western and northern stations, where cloudy and rainy. Cloud and showers extending to all parts of our islands later.

Temperature risen slightly; readings ranging from 64° in London and at Dover to 55° at Sumburgh Head, Stornoway, and Ardrossan. Subsequently rising to 75° at Cambridge and 76° in London.

Wind fresh or strong southerly in Ireland and Scotland, light and variable in S. England, and north-easterly or easterly over France. Moderate south-westerly breeze setting in in S. later, and wind veering to W. in Ireland.

Sea rather rough in extreme W. and N.W.

Barometer still rising over England and the Continent, but falling on western and northern coasts. Anticyclone now over N. of France, with rather deep depression off the W. of Scotland. Latter subsequently moving away northward, and recovery taking place in Ireland.

Friday, July 28.

Weather cloudy over England and Ireland, fine elsewhere. Becoming fine at most English stations later.

Temperature risen except in S.E. England, and readings ranging from 67° at Aberdeen to 57° at Prawle Point and 56° at Stornoway. Subsequently rising to 75° over Central England, but maximum in London only 66°.

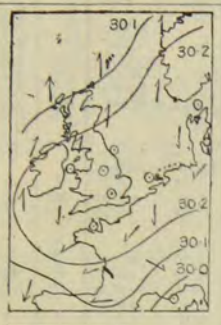
Wind somewhat variable, but generally south-westerly in the N. and E. and north-westerly in the W. North-westerly breezes extending eastward later.

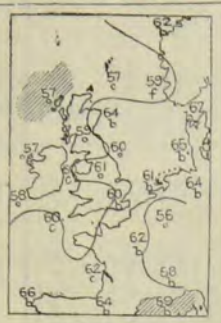
Sea slight or smooth.

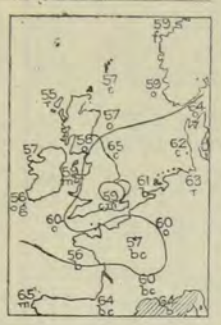
Barometer rising in W. and N., falling slightly elsewhere. Anticyclone over N. of France dispersing, but new one appearing in S.W. Depression off N. of Scotland moving away north-eastward.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 29.

Weather fine at all but our more western stations. Drizzling rain falling in W. of Ireland and Scotland in evening.

Temperature risen a little in the S. and E., and readings ranging from 64° at Aberdeen and 63° at Dover to 56° at Barrow-in-Furness and Roche's Point. Maximum of 75° recorded at Loughborough, Cambridge, and in London.

Wind southerly in Scotland and the W. of Ireland and north-easterly in France, but very light and variable elsewhere. Little change later.

Sea slight or smooth.

Barometer falling except in Scandinavia. Large area of uniformly high readings stretching from our S.W. coasts across England and the North Sea to the S. of Sweden, with depressions outside our N.W. coasts.

Sunday, July 30.

Weather fine in France and the S. of England, cloudy elsewhere, with rain at Stornoway, Holyhead, and Cuxhaven. Weather improving in W. later, but slight rain falling E. and N.

Temperature changed rather irregularly; readings ranging from 65° at Shields and Dover to 56° at Valencia and 55° at Stornoway. Highest maxima 76° at Cambridge and 77° in London.

Wind still north-easterly in France, generally north-westerly elsewhere.

Sea slight or smooth.

Barometer falling except over France and at our extreme western stations, change being rather brisk in Denmark. Anticyclone off our S.W. coasts and shallow depression to northward of Scotland, with new and large disturbance over southern portion of Baltic. Recovery of pressure extending over us from westward later.

Monday, July 31.

Weather cloudy and rainy on eastern shores of North Sea and also in the extreme W. and N. of our Islands, fine and bright elsewhere. Cloud and rain setting in over N. of England later.

Temperature changed irregularly and varying from 64° at Scilly to 55° on our N.W. coasts. Highest maxima 70° at Oxford, and 71° in London and at Hurst Castle.

Wind south-westerly in W., westerly in N., north-westerly in E., and north-easterly in S.; light or moderate in force. South-westerly winds extending somewhat later.

Sea slight or smooth.

Barometer falling on eastern shores of North Sea, rising elsewhere. Large depression over S. of Sweden, and area of high pressure over the Bay of Biscay and our S.W. coasts. Depression appearing off our W. coasts later and fall of barometer taking place at all but south-eastern stations.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ➢⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	63	43	59·7	48·6	54·2	+0·2	3	0·05	−0·29	*	*
	Stornoway	62	48	59·7	51·0	55·4	+0·4	5	0·37	−0·39	24	21
	Wick	69	42	63·9	49·3	56·6	+1·1	4	0·09	−0·33	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	52	63·3	54·9	59·1	−1·9	1	0·24	−0·27	*	*
	Jersey (Noirmont)	68	54	63·9	54·7	59·3	−2·7	1	0·45	−0·01	64	60

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	70	48	?64·7	?50·3	?57·5	? 0·0	3	0·39	−0·21	*	*
	Aberdeen	69	45	65·6	48·6	57·1	− 0·1	4	0·31	−0·37	49	43
	Leith	72	49	67·6	51·4	59·5	+ 0·7	4	0·30	−0·39	*	*
2. ENGLAND, N.E.	Alnwick Castle	68	43	63·9	51·0	57·5	− 0·2	3	0·56	?	*	*
	Shields	68	45	64·1	49·6	56·9	− 1·4	3	0·56	+0·01	*	*
	Durham	74	43	68·7	48·8	58·8	− 0·2	3	0·40	−0·18	48	43
	Scarborough ℳ	70	49	64·6	52·3	58·5	− 1·1	4	0·47	−0·13	*	*
	York	75	46	68·6	49·4	59·0	− 2·3	5	1·09	+0·59	?	?
	Spurn Head	66	52	63·9	54·1	59·0	− 1·3	4	0·29	?	*	*
3. ENGLAND, E.	Hillington ℳ	77	39	70·3	47·0	58·7	− 2·4	3	0·40	−0·16	50	46
	Yarmouth	69	46	65·0	52·4	58·7	− 2·7	3	0·14	−0·37	*	*
	Geldeston	74	43	68·4	50·0	59·2	− 2·6	4	0·23	−0·26	55	51
	Cambridge	76	41	71·9	49·1	60·5	− 2·5	3	0·39	−0·11	46	43
	Rothamsted	75	47	69·3	50·0	59·7	− 2·9	4	0·12	−0·48	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	72	43	69·9	47·7	58·8	− 2·8	4	0·62	+0·02	*	*
	Loughborough	75	46	71·0	51·3	61·2	− 1·2	3	0·31	−0·17	*	*
	Leicester	74	47	70·8	51·9	61·4	− 0·9	3	0·32	−0·28	31	28
	Birmingham (Oscott)										*	*
	Cheadle ℳ	70	45	64·3	48·3	56·3	− 4·3	4	0·57	?	*	*
	Churchstoke ℳ	71	41	67·1	46·0	56·6	− 3·9	3	0·47	?	34	31
	Hereford ℳ	75	43	70·5	47·0	58·8	− 3·2	1	0·22	−0·30	*	*
	Cirencester	71	45	68·0	49·4	58·7	− 3·0	2	0·04	−0·61	32	30
	Oxford	74	48	69·4	52·3	60·9	− 1·3	2	0·18	−0·36	40	37
5. ENGLAND, S.	London†	77	50	71·1	52·1	61·6	− 2·1	2	0·07	−0·43	40	37
	Marlborough ℳ	72	44	69·3	49·4	59·4	− 1·5	2	0·04	−0·52	45	42
	Strathfield Turgiss ℳ	77	43	72·4	48·8	60·6	− 1·2	2	0·13	−0·36	*	*
	Dover	69	53	66·1	54·9	60·5	− 1·4	5	0·39	−0·06	*	*
	Hastings (St. Leonard's)	75	52	67·7	54·7	61·2	− 0·3	2	0·13	−0·27	53	49
	Southampton	75	49	70·4	52·4	61·4	− 0·6	2	0·20	?	45	42
	Hurst Castle	74	48	68·4	53·0	60·7	− 0·8	1	0·02	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	65	48	61·5	51·3	56·4	− 0·9	5	1·49	?	*	*
	Glasgow	66	46	62·7	50·4	56·6	− 1·4	6	0·87	−0·03	24	21
	Ardrossan	67	49	62·6	53·1	57·9	0·0	6	0·57	−0·14	*	*
	Silloth (Cumberland)	70	47	65·9	51·2	58·6	− 1·5	6	0·97	+0·35	40	36
	Douglas (Isle of Man)	67	45	63·1	48·6	55·9	− 1·9	4	0·91	+0·28	45	41
7. ENGLAND, N.W.	Barrow-in-Furness	66	52	63·6	53·6	58·6	− 1·2	4	1·28	?	*	*
	Stonyhurst	69	45	64·7	49·8	57·3	− 2·5	5	1·29	+0·30	42	38
	Blackpool ℳ	65	42	62·2	51·4	56·8	− 3·7	3	1·18	+0·57	49	45
	Manchester										*	*
	Liverpool Obsy (Bidston)	67	49	63·1	53·1	58·1	− 2·7	4	1·13	+0·28	*	*
	Llandudno ℳ	67	49	62·4	52·2	57·3	− 3·6	3	0·51	+0·02	41	38
	Holyhead	66	50	62·0	53·1	57·6	− 2·1	5	1·12	+0·71	*	*
8. ENGLAND, S.W.	Pembroke	63	52	61·6	53·7	57·7	− 2·2	3	0·51	−0·05	57	53
	Arlington (N. Devon)	68	44	64·4	48·1	56·3	− 4·8	1	0·20	?	*	*
	Cullompton ℳ	76	44	70·2	49·3	59·8	− 1·8	2	0·03	?	48	44
	Falmouth	68	51	65·5	53·7	59·6	− 1·6	2	0·11	−0·51	67	63
	Plymouth	72	46	68·6	51·8	60·2	− 1·8	1	0·01	−0·64	61	57
	Prawle Point	68	49	64·1	52·1	58·1	− 1·9	2	0·07	?	*	*
9. IRELAND, N.	Londonderry	67	46	64·7	49·2	57·0	− 1·9	6	1·22	+0·42	*	*
	Mullaghmore	65	54	63·1	55·1	59·1	− 0·6	4	0·77	?	*	*
	Markree Castle	67	40	64·3	48·9	56·6	− 3·2	4	0·31	−0·38	33	30
	Brookeborough	75	42	64·5	49·8	57·2	− 2·9	4	0·46	?	*	*
	Armagh	64	46	62·9	50·7	56·8	− 3·5	6	0·57	−0·13	24	22
	Donaghadee	67	47	63·1	51·3	57·2	− 1·1	5	0·44	?	*	*
10. IRELAND, S.	Dublin	68	48	64·7	53·1	58·9	− 1·0	4	0·57	+0·03	34	31
	Parsonstown	67	45	64·7	47·9	56·3	− 3·4	4	0·27	−0·44	31	28
	Waterford										*	*
	Roche's Point	65	49	63·7	52·1	57·9	− 2·9	2	0·83	+0·13	*	*
	Valencia	64	46	62·3	50·6	56·5	− 2·8	4	0·59	−0·31	34	32
	Foynes	68	45	63·8	52·1	58·0	− 1·5	6	0·17	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, AUGUST 7, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day †	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	74	45	67	52	59	2 above.	1	1	6 less.	34	31
	2. ENGLAND, N.E.	76	45	67	53	60	1 above.	1	1	5 less.	59	55
	3. ENGLAND, E.	80	47	70	53	62	0 (average).	1	less than ½	5 less.	45	43
	4. MID. COUNTIES	79	42	69	53	61	0 (average).	1	less than ½	5 less.	48	45
	5. ENGLAND, S.	84	46	73	54	63	1 above.	0	less than ½	5 less.	53	50
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	72	47	64	53	58	0 (average).	2	3	6 less.	41	38
	7. ENGLAND, N.W.	68	47	63	55	59	1 below.	1	2	5 less.	34	32
	8. ENGLAND, S.W.	78	45	68	54	61	0 (average).	1	less than ½	6 less.	59	56
	9. IRELAND, N.	70	50	64	54	59	0 (average).	3	1	7 less.	19	17
	10. IRELAND, S.	73	51	67	55	61	2 above.	1	1	7 less.	38	36

General Remarks.

Weather has been generally dry and much more seasonable than of late; in the north-western parts of the Kingdom, however, the sky has been almost continuously cloudy.

Temperature has again been a little below the mean in "England, N.W.", but in all other districts it was equal to, or slightly above, the normal value. The maxima, which occurred in England and Scotland on the 6th, were higher than any previously registered during this summer, and ranged from between 78° and 80° over south-western, central, and eastern England, to 84° in "England, S." In "England, N.W.", however, the highest reading recorded was only 68°. The thermometer was generally lowest during the early morning of the 4th, when the readings over Great Britain varied from 42° in the "Midland Counties" to 47° in "England, N.W.", "Scotland, W.", and "England, E." In Ireland the lowest temperature experienced was 50°.

Rainfall has been considerably less than the mean in all districts.

Bright sunshine shows an increase on that recorded last week in most places, but a decided decrease in the E. of Scotland and N. of Ireland. The percentages varied from 56 in "England, S.W." and 55 in "England, N.E.", to only 17 in "Ireland, N."

Depressions observed.—During the whole of this period a rather extensive area of high pressure has existed to the south-westward or westward of our Islands, while comparatively low readings have been reported from Scandinavia. During the earlier part of the week a depression of considerable depth and magnitude appeared over the N. of Scotland, causing the wind to increase to a gale from the westward or north-westward on all our more northern coasts. As this disturbance travelled slowly on to Norway the wind in our Islands veered to the north-westward or northward and moderated, and at the close of the period it was very light in force and rather variable in direction.

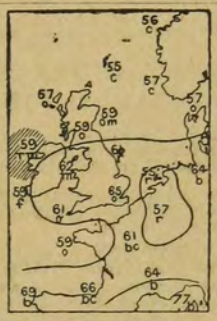
R 3169. 470.—8/82. Wt. 233. E. & S.

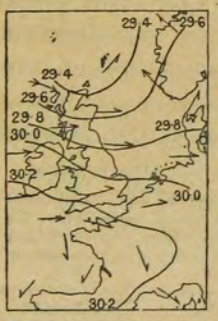
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending August 7, 1882.

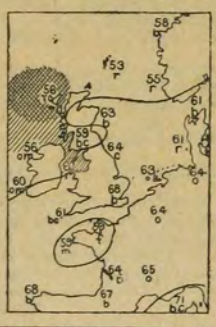
Synoptic Weather Charts.—8 a.m.

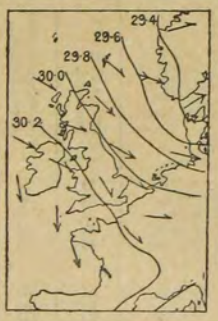
BAROMETER AND WIND.

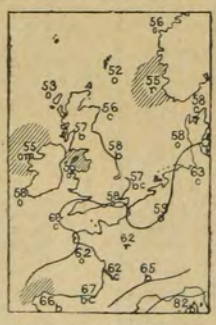
CLOUD, RAIN, SEA, AND TEMPERATURE.

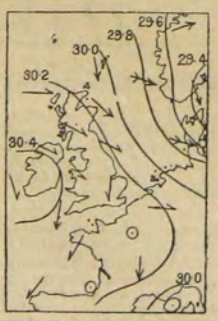


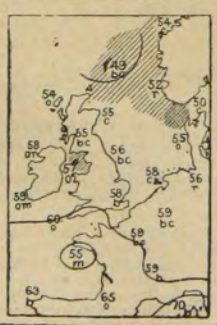












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 1.

Weather cloudy or dull except over France, with rain in the northern parts of England and Ireland. Slight rain at most northern stations later.

Temperature risen slightly; readings ranging from 65° in London to 55° in the Shetlands. Subsequently rising to 71° in London and at Cambridge, and 75° at Oxford.

Wind strong north-westerly in Norway and Denmark, moderate westerly in our Islands, light north-easterly in France. Little change later.

Sea slight or smooth generally.

Barometer rising slowly France, falling elsewhere. Anticyclone off our S.W. coasts, with shallow depressions over the southern part of the Baltic and off the N. of Scotland. Little change later.

Wednesday, August 2.

Weather fine on our S. and E. coasts, cloudy elsewhere, with rain at many northern stations. Some improvement in W. and N. later.

Temperature risen slightly, and readings ranging from 70° at Dover to 53° in the Shetlands. Maxima 73° or 74° over eastern England, 78° in London.

Wind south-easterly in W. of Norway, westerly in our Islands and northerly in France, moderate in S., very strong in N. Subsequently veering to N.W., and blowing strong gale in N. and E. of Scotland.

Sea rough off our N.W. coasts.

Barometer falling generally, quickly in N. Deep depression skirting N. of Scotland and subsequently moving eastwards. Recovery setting in over northern districts later.

Thursday, August 3.

Weather still cloudy on western and northern coasts, and rainy in the S. of Norway, fine elsewhere. Little change later.

Temperature fallen generally, and ranging from 62° at Hurst Castle to 52° in the Shetlands. Highest maxima 70° at York, 69° at Hurst Castle, and 67° in London.

Wind westerly on eastern shores of North Sea, north-westerly elsewhere. Blowing a gale in Denmark and the S. of Norway, and strongly in the E. of Scotland but moderate in force elsewhere.

Sea rough on our north-west coasts, moderate or slight generally.

Barometer falling Scandinavia and Denmark, rising elsewhere. Depression of previous day now over S. of Sweden and high pressure area appearing over S. of Ireland. Little change later.

Friday, August 4.

Weather rainy on eastern shores of North Sea and dull in Ireland, generally fair elsewhere. Becoming dull at all northern stations later.

Temperature scarcely changed; readings ranging from 62° at Prawle Point to 49° in the Shetlands. Highest maxima 71° at Hurst Castle, and 70° in London and at Parsonstown.

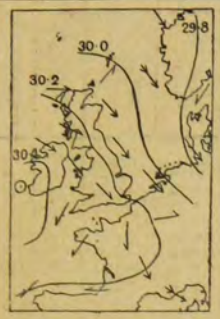
Wind south-westerly over the Baltic, but north-westerly over our Islands and the North Sea, and north-easterly in France. North-westerly gales blowing in Denmark and the S. of Norway, but wind moderate elsewhere.

Sea moderate or slight, except in the N.

Barometer falling a little in Denmark, rising elsewhere. Depression of previous two days still over southern Sweden and anticyclone covering the S. of Ireland. Slight fall taking place in our Islands later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.



CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, August 5.

Weather dull in the W. and N., with slight rain in some places, fair in other districts. Little change later.

Temperature risen except in Ireland; readings ranging from 63° at Aberdeen, Loughborough, and Dover to 49° in the Shetlands. Highest maximum 74° at Leith, York, and Prawle Point.

Wind north-easterly in France, north-westerly elsewhere; strong on eastern shores of North Sea, generally moderate in our Islands. Wind backing to S.W. in Shetlands later.

Sea moderate or slight generally.

Barometer rising Scandinavia and Denmark, falling slightly elsewhere. Swedish depression quite disappeared, and readings still highest over southern Ireland. Small, shallow depression passing down our E. coasts later.

Sunday, August 6.

Weather cloudy in W. and N., generally fine elsewhere. Becoming fine in W. later.

Temperature changed irregularly, and ranging from 65° at York and 64° at Prawle Point to 54° in the Shetlands. Subsequently rising to 80° in London and at Cambridge and Hurst Castle.

Wind westerly in N., north-westerly in E. and S., and north-easterly over France. Moderate in force generally. Little change later.

Sea rather rough at Stornoway, slight or smooth elsewhere.

Barometer falling a little generally. Anticyclone still over S. Ireland, but shallow depression appearing to northward of Scotland and deeper one over S. Sweden. Both moving away later, and mercury rising again in Hebrides.

Monday, August 7.

Weather still cloudy in N.W., but fair in most other districts.

Temperature fallen at the majority of stations, and ranging from 67° at Hurst Castle and 64° in London to 54° in the Shetlands. Highest maxima 76° in London, 75° at Hurst Castle, and 73° at Loughborough.

Wind light or moderate generally. North-westerly in the more northern districts, and drawing into N. or N.E. in the S.

Sea slight or smooth.

Barometer rising at all but south-western stations. Anticyclone extending over all western districts in morning and to N.E. coasts also in evening. Little change during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	60	45	57·1	47·9	52·5	−1·6	6	0·93	+0·58	•	•
	Stornoway	63	48	59·3	51·4	55·4	+0·4	3	0·38	−0·43	13	12
	Wick	63	45	59·4	51·0	55·2	−0·2	4	0·56	+0·07	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	65	55	63·0	57·1	60·1	−1·0	2	0·03	−0·47	•	•
	Jersey (Noirmont)	70	54	66·7	56·3	61·5	−0·5	2	0·03	−0·46	70	68

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	69	48	64·1	53·1	58·6	+ 1·4	1	0·02	−0·61	*	*
	Aberdeen	72	45	66·4	51·6	59·0	+ 2·0	2	0·10	−0·60	34	31
	Leith	74	47	68·9	51·1	60·0	+ 1·4	1	0·08	−0·52	*	*
2. ENGLAND, N.E.	Alnwick Castle	70	47	65·4	52·9	59·2	+ 1·8	1	0·22	?	*	*
	Shields	71	45	65·4	52·6	59·0	+ 1·0	1	0·08	−0·48	*	*
	Durham	75	46	69·4	51·5	60·5	+ 2·4	1	0·01	−0·58	59	55
	Scarborough ℳ	74	50	66·8	54·3	60·6	+ 1·4	1	0·02	−0·54	*	*
	York	76	46	70·4	52·4	61·4	+ 0·6	1	0·10	−0·41	?	?
	Spurn Head	69	50	64·7	55·3	60·0	0·0	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	79	50	70·8	52·7	61·8	+ 0·8	1	0·07	−0·47	47	44
	Yarmouth	73	50	67·3	54·4	60·9	− 0·3	1	0·01	−0·46	*	*
	Geldeston	79	48	71·1	52·5	61·8	+ 0·2	1	0·03	−0·40	52	49
	Cambridge	80	47	71·4	52·0	61·7	− 1·0	0	—	−0·48	39	37
	Rothamsted	77	47	70·7	52·5	61·6	− 0·7	1	0·01	−0·57	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	75	47	70·1	52·0	61·1	0·0	1	0·06	−0·49	*	*
	Loughborough	76	50	70·1	55·0	62·6	+ 0·6	0	—	−0·46	*	*
	Leicester	74	50	70·5	54·2	62·4	+ 0·4	1	0·05	−0·55	57	53
	Birmingham (Oscott)										*	*
	Cheadle ℳ	69	49	64·7	52·8	58·8	− 1·6	1	0·04	?	*	*
	Churchstoke ℳ	74	46	67·6	51·1	59·4	− 0·9	1	0·01	?	40	37
	Hereford ℳ	78	42	70·7	52·3	61·5	− 0·3	1	0·01	−0·49	*	*
	Cirencester	78	46	70·3	51·7	61·0	− 0·5	1	0·03	−0·62	51	48
	Oxford	79	50	71·3	54·9	63·1	+ 1·1	0	—	−0·51	45	42
5. ENGLAND, S.	London†	80	50	73·6	54·6	64·1	+ 0·6	0	—	−0·57	39	37
	Marlborough ℳ	77	46	70·4	51·5	61·0	+ 0·3	0	—	−0·56	54	51
	Strathfield Turgiss ℳ	84	46	?75·8	?50·4	?63·1	?+ 1·3	1	0·02	−0·39	*	*
	Dover	73	52	69·9	56·4	63·2	+ 1·3	1	0·02	−0·43	*	*
	Hastings (St. Leonard's)	75	49	71·2	54·2	62·7	+ 1·1	0	—	−0·40	57	54
	Southampton	81	50	74·1	54·0	64·1	+ 2·0	0	—	?	60	57
	Hurst Castle	80	49	72·3	54·7	63·5	+ 1·9	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	62	49	60·4	52·3	56·4	− 0·8	5	0·92	?	*	*
	Glasgow	66	47	63·2	52·2	57·7	0·0	1	0·07	−0·83	47	43
	Ardrossan	65	52	62·4	53·4	57·9	+ 0·1	2	0·29	−0·50	*	*
	Silloth (Cumberland)	72	48	67·6	53·4	60·5	+ 0·5	1	0·10	−0·55	36	33
	Douglas (Isle of Man)	67	51	64·3	53·6	59·0	+ 1·1	3	0·10	−0·60	40	37
7. ENGLAND, N.W.	Barrow-in-Furness	68	54	64·3	55·6	60·0	− 0·4	1	0·10	?	*	*
	Stonyhurst	64	48	63·0	52·5	57·8	− 1·9	1	0·64	−0·38	46	43
	Blackpool ℳ	64	54	61·9	56·4	59·2	− 1·3	1	0·15	−0·41	33	31
	Manchester	65	47	63·5	52·6	58·1	− 2·5	1	0·28	−0·46	*	*
	Liverpool Obsy (Bidston)	67	55	62·7	56·4	59·6	− 1·2	1	0·05	−0·68	*	*
	Llandudno ℳ	66	54	63·8	55·1	59·5	− 1·3	1	0·05	−0·39	22	21
	Holyhead	67	53	63·4	55·6	59·5	− 0·4	2	0·03	−0·45	*	*
8. ENGLAND, S.W.	Pembroke	66	53	62·4	55·7	59·1	− 0·5	1	0·02	−0·57	42	40
	Arlington (N. Devon)	70	46	65·1	51·9	58·5	− 1·7	1	0·18	?	*	*
	Cullompton ℳ	76	45	72·0	50·2	61·1	− 0·8	1	0·01	?	59	56
	Falmouth	71	54	66·8	55·9	61·4	+ 0·2	1	0·03	−0·60	68	65
	Plymouth	78	51	73·3	55·6	64·5	+ 2·5	0	—	−0·62	65	63
	Prawle Point	75	50	70·0	53·7	61·9	+ 2·0	0	—	?	*	*
9. IRELAND, N.	Londonderry	69	50	65·3	52·1	58·7	− 0·1	4	0·10	−0·70	*	*
	Mullaghmore	65	54	61·6	55·0	58·3	− 1·2	6	0·22	?	*	*
	Markree Castle	69	53	63·5	54·4	59·0	− 0·5	4	0·08	−0·70	16	15
	Brookeborough	68	53	64·8	54·6	59·7	− 0·1	1	0·04	?	*	*
	Armagh	68	53	65·8	55·2	60·5	+ 0·7	0	—	−0·69	21	19
	Donaghadee	70	52	64·1	54·0	59·1	+ 0·9	1	0·01	?	*	*
10. IRELAND, S.	Dublin	71	54	67·2	56·3	61·8	+ 2·0	0	—	−0·55	32	30
	Parsonstown	73	52	69·0	54·3	61·7	+ 2·5	0	—	−0·75	40	37
	Waterford										*	*
	Roche's Point	73	52	69·4	54·1	61·8	+ 1·2	0	—	−0·73	*	*
	Valencia	68	51	65·0	54·7	59·9	+ 0·5	2	0·08	−0·82	42	40
	Foynes	70	53	66·5	54·2	60·4	+ 1·3	3	0·22	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, AUGUST 14, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	82	44	73	52	62	5 above.	2	1	5 less.	62	58
	2. ENGLAND, N.E.	78	46	69	53	61	2 above.	2	2	4 less.	51	49
	3. ENGLAND, E.	80	41	70	52	61	1 below.	1	less than ½	4 less.	42	40
	4. MID. COUNTIES	81	42	73	51	62	1 above.	2	2	4 less.	46	45
	5. ENGLAND, S.	82	45	70	55	63	1 above.	2	1	4 less.	37	36
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	75	43	69	52	60	2 above.	2	5	3 less.	52	50
	7. ENGLAND, N.W.	75	48	69	55	62	2 above.	3	5	1 less.	53	51
	8. ENGLAND, S.W.	77	45	68	55	62	1 above.	3	7	0 (average).	47	46
	9. IRELAND, N.	84	44	70	53	62	3 above.	3	6	2 less.	41	39
	10. IRELAND, S.	83	45	70	54	62	2 above.	2	5	2 less.	49	48

General Remarks.

Weather during the greater part of this period has been dry, fine, and bright; but towards its close it became dull and unsettled with some heavy thunderstorms.

Temperature has been slightly below the mean in "England, E.", but above it in all other districts; in "Scotland, E." the excess has been as much as 5°. The maxima, which were again rather high, were registered on the 10th and 11th in the northern and north-western parts of the Kingdom, and on the 12th at our central and southern stations. They varied from 75° in "Scotland, W." and "England, N.W.", to 82° in "Scotland, E." and "England, S." and 84° in "Ireland, N." The minima ranged from 41° in "England, E." and 42° in the "Midland Counties", to 48° in "England, N.W."

Rainfall has been about equal to the mean in "England, S.W.", but less in all other places. In all the "Wheat-producing Districts" the fall has been very slight.

Bright sunshine shows a considerable increase in Ireland, Scotland, and the N.W. of England, but elsewhere a slight decrease is reported.

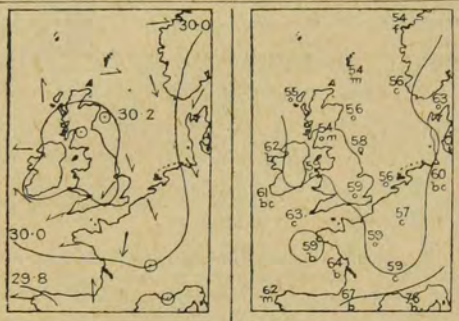
Depressions observed.—During the first part of this period a well defined anticyclone existed over our Islands, while comparatively low pressure was reported from Scandinavia. The wind was consequently light or moderate from the westward in the N., from the northward in the E., from the eastward in the S., and from S.E. and S. in the W. By the 12th, however, the high pressure lay over Denmark, and from that date to the close of the period several small depressions appeared over our Islands travelling in a north-easterly direction with southerly or south-westerly winds.

R 3227. 470.—8/82. Wt. 283. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending August 14, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 8.

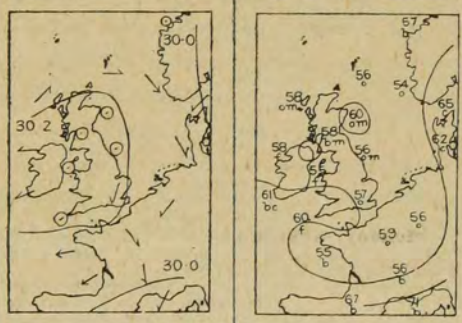
Weather dull in Scotland, fair elsewhere. Becoming fine in the N. later.

Temperature fallen a few degrees in the S.E.; readings ranging from 63° at Scilly and Prawle Point to 54° at Sumburgh Head, Ardrossan, and Donaghadee. Highest maxima 75° at Loughborough and 73° at York; London only 70°.

Wind easterly or north-easterly in the S., and southerly in the extreme N., light and variable elsewhere. Little change later.

Sea slight or smooth generally.

Barometer falling a little over France and our S.W. coasts, rising elsewhere. Anticyclone lying directly over our Islands, and lowest pressures found over the Baltic. Subsequent changes slight and unimportant.



Wednesday, August 9.

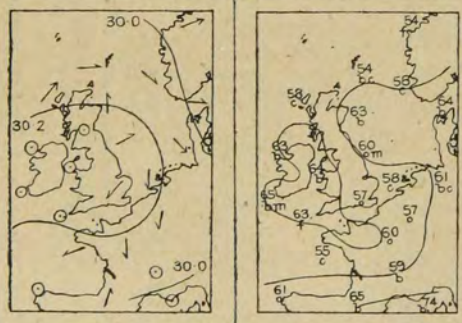
Weather fair at all but extreme northern stations, where very cloudy.

Temperature risen a little in Scotland, fallen elsewhere; ranging from 65° at Prawle Point to 54° at York and 52° at Parsonstown. Subsequently rising to 79° at Loughborough and 78° at Parsonstown, but maximum in London only 70°.

Wind south-westerly or westerly in N. of Scotland, north-easterly over the S. of England and France, calm or variable airs at intermediate stations.

Sea smooth generally.

Barometer rising slightly generally. Anticyclene covering entire Kingdom, with lowest readings over Baltic, and relatively low pressures over the S. of France. Little change later.



Thursday, August 10.

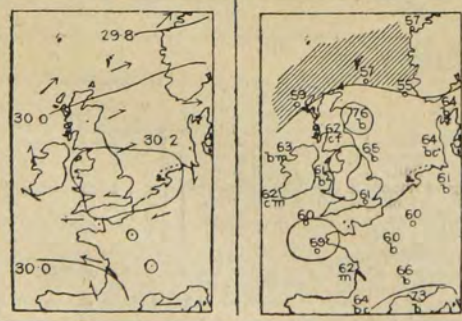
Weather dull over central England, fine and bright elsewhere.

Temperature risen slightly most places; readings ranging from 65° at Valentia to 54° in the Shetlands. Subsequently rising rapidly in Scotland, and reaching maximum of 82° at Leith and 80° at Nairn; highest point reached in London only 63°.

Wind little changed. Still south-westerly in N. and easterly in S., with variable airs at more central stations. Light south-westerly breeze setting in at most northern stations later.

Sea slight or smooth.

Barometer falling N. of Scandinavia and slightly in Scotland, rising a little elsewhere. Anticyclone still covering our Islands, but lowest pressures now found in extreme N. Slight fall occurring generally later.



Friday, August 11.

Weather cloudy in extreme N. of Scotland and S. of England, fine and bright elsewhere. Sky subsequently clearing in S.

Temperature fallen a little on extreme S.W. coasts, risen elsewhere—quickly in E. Scotland. Readings ranging from 76° at Aberdeen to 58° at York and 57° in the Shetlands. Highest maxima 82° at Leith, 81° at Aberdeen, and 80° at Nairn, but London only 71°.

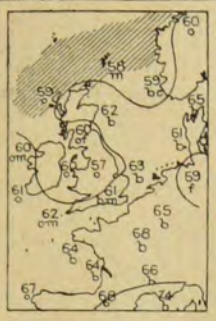
Wind still easterly in S. and south-westerly in N., but south-easterly breezes setting in over Ireland. South-westerly winds blowing strongly in Shetlands and Hebrides.

Sea rather rough in extreme N., slight or smooth elsewhere.

Barometer falling generally, most in N. Anticyclone now confined to S. of England, and large depressions appearing to northward of Scotland. Fall continuing all day, and high pressure gradually breaking up.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, August 12.

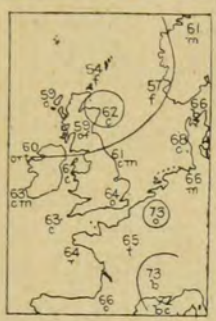
Weather overcast at all western stations, fine elsewhere. Becoming unsettled in S. later, with thunderstorms in many places.

Temperature fallen except S.; readings ranging from 66° at Hurst Castle and Dover to only 53° at Oxford. Subsequently rising to 82° in London, 81° at Loughborough, and 80° at Cambridge.

Wind still easterly or north-easterly in S., but southerly in W., and south-westerly in N. Strong at Stornoway, light or moderate elsewhere.

Sea rough off N. of Scotland.

Barometer falling except in Scandinavia and S. of France. Highest readings now over Denmark, and lowest off our western and northern coasts. Small shallow depression appearing over Channel in evening.



Sunday, August 13.

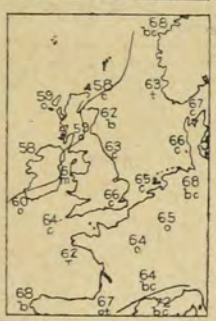
Weather fine in Sweden and E. of Scotland; cloudy elsewhere, with rain at Roche's Point and thunderstorms at Barrow-in-Furness and Liverpool. Severe thunderstorms occurring in Scotland and N. of England later; but rainfall not heavy.

Temperature fallen S., risen elsewhere. Readings ranging from 70° at Cambridge to 54° in the Shetlands. Highest maxima 76° at Loughborough and 73° at Cambridge.

Wind moderate south-westerly in S., light south-easterly or southerly in N. Little change later.

Sea slight or smooth.

Barometer rising over France and Scandinavia, falling elsewhere. Areas of relatively high readings over Baltic and S. of France, with lowest pressure off our western coasts and small shallow depression over England. Recovery taking place in S. of England later.



Monday, August 14.

Weather dull in Ireland and Scotland, cloudy elsewhere, with showers at Pembroke. Showers occurring generally later.

Temperature changed little and irregularly; readings ranging from 67° at Cambridge to 58° at Wick and Mullaghmore. Highest Maxima 77° at Loughborough and Cambridge and 76° at Spurn Head.

Wind south-westerly or southerly generally; very light in N., moderate or fresh in S.

Sea moderate to smooth.

Barometer rising over France and southern England, falling elsewhere. Highest readings still found over Baltic and S. of France, with shallow depression over the W. of Scotland. Latter passing northward later, and barometer rising in N., but fresh fall taking place in S.W.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	65	49	60·1	51·3	55·7	+1·5	2	0·45	−0·04	*	*
	Stornoway	66	52	61·9	54·4	58·2	+3·1	1	0·33	−0·50	16	15
	Wick	79	50	68·7	52·7	60·7	+5·4	2	0·65	+0·09	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	69	57	67·4	58·6	63·0	+1·8	2	0·13	−0·35	*	*
	Jersey (Noirmont)	81	54	70·6	57·3	64·0	+1·9	1	0·01	−0·50	59	58

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	80	48	72·1	53·6	62·9	+ 5·9	2	0·24	−0·41	*	*
	Aberdeen	81	44	72·0	51·3	61·7	+ 4·9	2	0·04	−0·67	62	58
	Leith	82	47	74·3	50·0	62·2	+ 3·7	2	0·15	−0·43	*	*
2. ENGLAND, N.E.	Alnwick Castle	75	47	67·9	52·3	60·1	+ 2·8	1	0·05	?	*	*
	Shields	77	50	68·1	53·1	60·6	+ 2·8	2	0·06	−0·49	*	*
	Durham	78	46	71·9	50·9	61·4	+ 3·7	2	0·02	−0·54	53	50
	Scarborough ⚓	75	51	67·1	54·4	60·8	+ 1·9	2	0·21	−0·31	*	*
	York	75	48	73·4	51·9	62·7	+ 2·2	2	0·28	−0·25	49	47
	Spurn Head	76	53	66·1	55·3	60·7	+ 0·9	2	0·32	?	*	*
3. ENGLAND, E.	Hillington ⚓	80	41	72·2	48·8	60·5	− 0·5	0	—	−0·53	40	38
	Yarmouth	71	49	65·9	55·4	60·7	− 0·4	1	0·02	−0·39	*	*
	Geldeston	75	42	68·3	50·9	59·6	− 1·9	0	—	−0·38	41	40
	Cambridge	80	46	73·6	51·4	62·5	− 0·1	2	0·03	−0·37	44	43
	Rothamsted	77	43	69·5	51·7	60·6	− 1·5	3	0·14	−0·37	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	80	45	76·9	49·6	63·3	+ 2·4	3	0·08	−0·42	*	*
	Loughborough	81	44	76·3	51·1	63·7	+ 2·0	1	0·03	−0·39	*	*
	Leicester	79	42	74·3	50·9	62·6	+ 0·9	0	—	−0·60	59	57
	Birmingham (Oscott)										*	*
	Cheadle ⚓	74	48	71·0	51·8	61·4	+ 1·2	3	0·18	?	*	*
	Churchstoke ⚓	75	44	70·8	50·2	60·5	÷ 0·3	2	0·40	?	52	50
	Hereford ⚓	77	42	72·8	51·2	62·0	+ 0·3	3	0·27	−0·22	*	*
	Cirencester	80	47	71·6	51·9	61·8	+ 0·4	3	0·22	−0·43	?39	?38
	Oxford	77	47	70·4	52·6	61·5	− 0·4	1	0·02	−0·47	35	34
5. ENGLAND, S.	London†	82	47	71·7	54·6	63·2	− 0·2	2	0·03	−0·40	29	28
	Marlborough ⚓	79	45	69·3	52·4	60·9	+ 0·4	2	0·11	−0·46	41	40
	Strathfield Turgiss ⚓	82	47	74·5	53·1	63·8	+ 2·1	2	0·04	−0·34	*	*
	Dover	71	56	66·1	58·1	62·1	+ 0·2	4	0·09	−0·37	*	*
	Hastings (St. Leonard's)	76	54	68·6	57·7	63·2	+ 1·6	0	—	−0·42	31	30
	Southampton	78	50	70·9	55·1	63·0	+ 0·9	3	0·25	?	45	44
	Hurst Castle	75	51	69·3	55·7	62·5	+ 0·9	2	0·08	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	75	49	68·6	53·8	61·2	+ 4·0	2	0·70	?	*	*
	Glasgow	74	47	70·0	51·8	60·9	+ 3·5	2	0·38	−0·52	44	42
	Ardrossan	69	48	66·7	52·9	59·8	+ 2·1	3	0·73	−0·12	*	*
	Silloth (Cumberland)	75	47	71·0	51·8	61·4	+ 1·5	2	0·19	−0·50	53	51
	Douglas (Isle of Man)	71	43	66·7	49·0	57·9	− 0·1	2	0·71	−0·04	59	57
7. ENGLAND, N.W.	Barrow-in-Furness	71	53	68·4	56·6	62·5	+ 2·4	2	0·63	?	*	*
	Stonyhurst	75	50	71·9	54·5	63·2	+ 3·5	2	0·42	−0·61	52	50
	Blackpool ⚓	73	48	67·6	52·5	60·1	− 0·5	4	0·84	+0·33	49	47
	Manchester										*	*
	Liverpool Obsy (Bidston)	74	52	70·3	55·3	62·8	+ 2·0	4	0·26	−0·34	*	*
	Llandudno ⚓	71	53	68·1	55·8	62·0	+ 1·4	2	0·70	+0·29	57	55
	Holyhead	72	52	67·6	55·3	61·5	+ 1·5	3	0·40	−0·11	*	*
8. ENGLAND, S.W.	Pembroke	69	55	65·4	57·0	61·2	+ 1·8	3	1·32	+0·72	59	57
	Arlington (N. Devon)	74	50	69·0	52·4	60·7	+ 0·4	3	2·05	?	*	*
	Cullompton ⚓	77	45	71·1	51·9	61·5	− 0·3	3	0·21	?	42	41
	Falmouth	70	56	66·9	58·0	62·5	+ 1·4	0	—	−0·65	46	45
	Plymouth	75	51	69·3	55·8	62·6	+ 0·6	3	0·26	−0·34	40	39
	Prawle Point	72	49	67·6	?55·6	?61·6	?+ 1·8	3	0·09	?	*	*
9. IRELAND, N.	Londonderry	84	46	73·7	51·6	62·7	+ 4·0	3	0·97	+0·14	*	*
	Mullaghmore	76	56	68·7	58·0	63·4	+ 4·0	3	0·56	?	*	*
	Markree Castle	80	44	69·9	50·1	60·0	+ 0·7	3	0·33	−0·52	36	34
	Brookeborough	81	49	71·8	52·7	62·3	+ 2·7	3	0·67	?	*	*
	Armagh	77	51	69·8	54·1	62·0	+ 2·4	3	0·52	−0·13	46	44
	Donaghadee	71	47	67·4	52·1	59·8	+ 1·7	2	0·40	?	*	*
10. IRELAND, S.	Dublin	70	52	68·7	55·9	62·3	+ 2·6	3	0·46	−0·11	49	47
	Parsonstown	80	47	72·1	52·9	62·5	+ 3·0	2	0·95	+0·16	41	39
	Waterford	83	45	72·1	52·6	62·4	+ 2·1	4	0·60	−0·20	*	*
	Roche's Point	69	52	67·7	55·7	61·7	+ 1·3	3	0·55	−0·20	*	*
	Valencia	77	52	69·4	54·3	61·9	+ 2·3	2	0·23	−0·63	58	57
	Foynes	78	51	71·0	53·1	62·1	+ 3·1	2	0·37	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, AUGUST 21, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Rawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) ,Cheadle, Churchstoke Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	72	44	67	53	60	3 above.	6	5	1 less.	28	27
	2. ENGLAND, N.E.	72	43	66	53	60	2 above.	6	8	2 more.	33	33
	3. ENGLAND, E.	70	40	69	52	60	1 below.	5	7	2 more.	43	43
	4. MID. COUNTIES	73	42	66	52	59	2 below.	5	7	2 more.	29	29
	5. ENGLAND, S.	73	45	67	54	60	1 below.	4	4	1 less.	29	29
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	70	46	63	52	58	0 (average).	5	11	0 (average).	34	34
	7. ENGLAND, N.W.	68	43	63	54	59	1 below.	5	9	3 more.	37	37
	8. ENGLAND, S.W.	71	47	64	54	59	1 below.	5	7	1 more.	39	39
	9. IRELAND, N.	69	41	63	50	57	2 below.	5	5	3 less.	38	38
	10. IRELAND, S.	69	43	64	51	57	2 below.	4	4	4 less.	38	38

General Remarks.

Weather during this period has been cloudy and changeable, with frequent, and in some places, heavy falls of rain.

Temperature has again been a little above the mean in the E. of Scotland and the N.E. of England, and about equal to it in "Scotland, W."; but in all other parts of the Kingdom it has been slightly below its normal value. The thermometer was generally highest during the 18th, when the maxima varied from 68° in "England, N.W." and 69° in Ireland, to 79° in "England, E." The minima, which were registered on different days in various parts of the country, were as low as 40° in "England, E.", 41° in "Ireland, N.", and between 42° and 45° in most other districts; but in "Scotland, W." and "England, N.W." the lowest readings recorded were 46° and 47°.

Rainfall has been rather less than the mean in Ireland, "Scotland, E.", and "England, S."; but a little more in nearly all other districts.

Bright sunshine shows a marked decrease in Scotland, and a more or less considerable decrease in most other places. The percentages ranged from 27 in "Scotland, E." to 39 in "England, S.W." and 43 in "England, E."

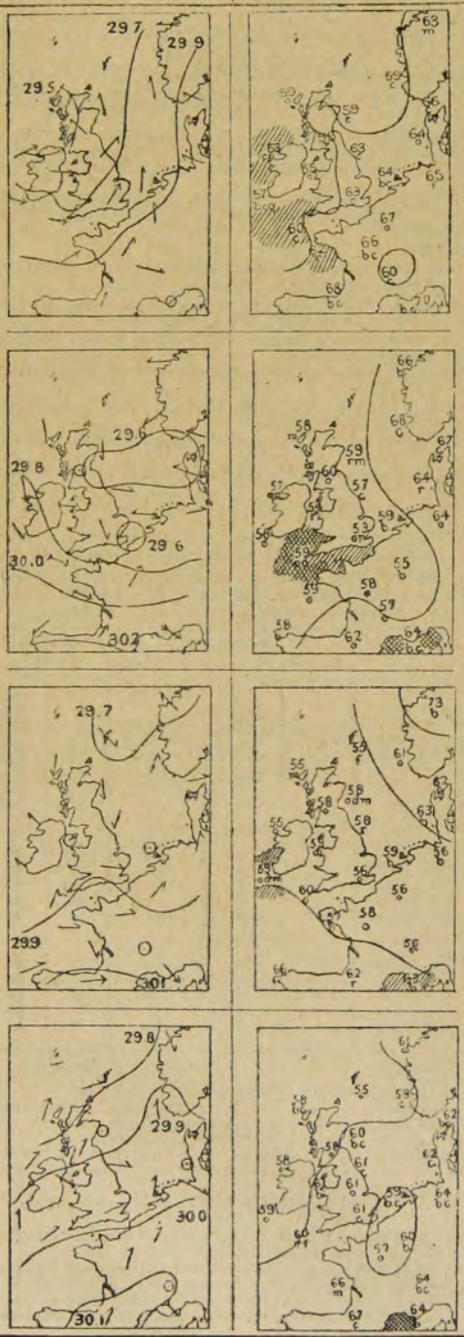
Depressions observed.—During the greater part of this period small depressions have been observed over our Islands, travelling generally in an easterly direction, accompanied by moderate or fresh winds from between S.W. and N.W. On the 20th, however, a rapid fall of the barometer in the W. and N. gave signs of the approach of a more serious disturbance, which at the close of the period lay off the N.E. of Scotland. Under its influence the wind rose to a strong breeze or fresh gale from W. or W.N.W. on almost all our coasts.

R 3323. 470.—8/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending August 21, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 15.

Weather fine on our E. and S.E. coasts, as well as in the S. of Ireland; cloudy elsewhere, with rain at Wick, Ardrossan, and Barrow-in-Furness. Rain falling generally later.

Temperature fallen; readings ranging from 64° at Cambridge and Dover to 53° at Mullaghmore. Highest maxima 72° at Nairn and 71° in London.

Wind strong westerly in W., fresh south-westerly in S. and E., and moderate southerly in N. Subsequently blowing gale in S.W., but veering to N.W. in Ireland.

Sea rather rough in W. and S.W.

Barometer falling except in S. Ireland. Depression over W. of Scotland, with subsidiary disturbances over more southern districts. Latter passing eastwards later, and mercury rising at all western stations.

Wednesday, August 16.

Weather fine in the E. of England, cloudy elsewhere, with mist in the N. and rain both in the N.W. and S.E. Becoming fair generally later.

Temperature fallen quickly over England; readings ranging from 59° at Aberdeen and Scilly to 50° at York. Subsequently rising to 71° at York, 70° at Cambridge, and 67° in London.

Wind generally northerly or north-westerly; fresh in the W., and very strong in the S.W.; light or moderate elsewhere.

Sea rough in the W. and S.

Barometer falling in the S.E. of England and on eastern shores of North Sea, rising elsewhere. Depressions of previous day now over various parts of the German Ocean, and highest pressures to the south-westward of our Islands.

Thursday, August 17.

Weather cloudy at the majority of stations, with rain at Shields and Dover, and misty drizzle at Aberdeen and Valencia. Slight showers occurring in most places later.

Temperature risen generally; readings ranging from 61° at Pembroke to 54° at Parsonstown. Maxima over England rather low for season; varying between 68° and 70°.

Wind light north-westerly at all eastern and northern stations, but moderate southerly and south-easterly in W. Subsequently veering to S.W. and W. in Ireland and the W. of England.

Sea rather rough at Valencia, moderate or smooth generally.

Barometer falling decidedly in extreme W. and S.W., rising elsewhere. Readings highest over N. of Spain and depression apparently approaching our S.W. coasts. Disturbance moving northwards later and barometer rising in W.

Friday, August 18.

Weather very cloudy in S., with rain at Scilly and drizzle at Dover and Oxford, but fair at most northern stations. Becoming overcast in N. later.

Temperature risen slightly most places and ranging from 63° at Spurn Head and Yarmouth to 55° at Sumburgh Head, Parsonstown, and Roche's Point. Subsequently reaching 71° in London and at Oxford.

Wind moderate westerly in France, light south-westerly or southerly elsewhere. Shifting to E. at Scilly later.

Sea moderate or smooth.

Barometer rising generally and depression of previous day now well to the northward of Scotland. Slight fall taking place in S.W. later, and small shallow disturbance apparently forming near Scilly.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, August 19.

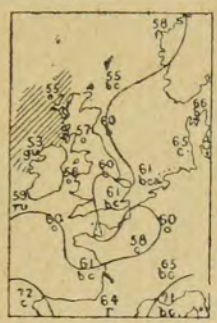
Weather still very cloudy over England, with rain at times, but fair in the W. and N.; general appearance not at all settled.

Temperature not materially changed; maximum readings at our inland stations ranging from 68° to 71°.

Wind very variable in direction, light to moderate in force, and not altering materially during the day.

Sea smooth, or nearly so, on all our coasts.

Barometer highest over the Bay of Biscay and France, lowest in the N. Slight local irregularities observed, but pressure inclined to increase slowly.



Sunday, August 20.

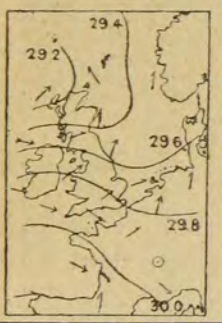
Weather finer than of late over our eastern and south-eastern districts; dull and rainy in the W., and subsequently becoming somewhat showery in most places.

Temperature changing irregularly; colder in the N. than on the 19th, but again reaching 70° or 71° over our south-eastern counties during the afternoon.

Wind south-westerly in most places, and blowing freshly in the W. and N.; subsequently veering a little as the day advanced.

Sea rough in extreme W. and N.W., and afterwards rising in the Channel.

Barometer still highest in the S. A well-marked depression off our extreme western coasts, travelling north-eastwards.



Monday, August 21.

Weather rather rough, gusty, and unsettled; showery in the W. and N., but not in the S. and E.

Temperature lower than of late, the maxima being only about 64° to 67°.

Wind westerly and rather strong; attaining the force of a moderate to fresh gale at one or two stations, and veering to N.W. subsequently.

Sea rough in the W. and N.W., and on the French side of the Channel.

Barometer rising generally; the depression in the N. beginning to move in an east-south-easterly direction during the day, and travelling quickly.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	62	49	60·4	52·3	56·4	+2·4	5	0·54	−0·01	*	*
	Stornoway	66	49	60·3	52·3	56·3	+1·6	5	1·03	+0·13	23	22
	Wick	65	45	63·4	50·7	57·1	+2·1	4	0·31	−0·34	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	51	62·6	56·4	59·5	−1·4	4	0·13	−0·36	*	*
	Jersey (Noirmont)	68	54	65·9	56·9	61·4	−0·5	4	0·17	−0·38	?	?

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	72	46	67·0	52·9	60·0	+ 3·5	5	0·59	−0·09	*	*
	Aberdeen	69	44	66·1	52·1	59·1	+ 2·8	6	0·60	−0·12	28	27
	Leith	72	46	67·4	52·9	60·2	+ 2·2	6	0·44	−0·16	*	*
2. ENGLAND, N.E.	Alnwick Castle	67	47	64·7	52·7	58·7	+ 1·9	5	0·45	?	*	*
	Shields	67	45	66·0	53·3	59·7	+ 2·4	6	0·48	−0·08	*	*
	Durham	72	43	68·7	50·6	59·7	+ 2·6	6	0·87	+0·32	31	31
	Scarborough ⚓	68	48	64·6	54·3	59·5	+ 1·1	6	0·72	+0·21	*	*
	York	71	44	67·0	51·7	59·4	− 0·4	7	0·92	+0·32	34	34
	Spurn Head	69	49	65·1	55·6	60·4	+ 1·2	5	1·13	?	*	*
3. ENGLAND, E.	Hillington ⚓	79	40	70·4	49·1	59·8	− 0·4	5	1·17	+0·62	43	43
	Yarmouth	70	49	66·7	55·4	61·1	+ 0·5	3	0·37	−0·05	*	*
	Geldeston	74	46	69·9	52·7	61·4	+ 0·3	4	0·37	+0·02	54	55
	Cambridge	74	44	69·0	52·6	60·8	− 1·3	5	0·68	+0·20	31	31
	Rothamsted	70	45	66·5	50·9	58·7	− 2·8	6	0·81	+0·34	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	42	66·4	49·7	58·1	− 2·1	5	0·87	+0·38	*	*
	Loughborough	70	46	67·0	53·7	60·4	− 0·7	4	1·06	+0·59	*	*
	Leicester	72	47	67·0	53·5	60·3	− 0·8	6	1·03	+0·45	23	23
	Birmingham (Oscott)										*	*
	Cheadle ⚓	68	44	63·0	50·9	57·0	− 2·6	5	0·49	?	*	*
	Churchstoke ⚓	70	44	65·0	50·1	57·6	− 2·2	5	0·26	?	39	39
	Hereford ⚓	73	46	67·7	52·9	60·3	− 0·8	5	0·69	+0·21	*	*
	Cirencester	72	47	65·9	51·9	58·9	− 2·0	5	0·69	+0·04	29	29
	Oxford	71	49	66·6	54·1	60·4	− 0·9	4	0·35	−0·13	26	26
5. ENGLAND, S.	London†	71	48	69·1	53·7	61·4	− 1·4	2	0·22	−0·32	22	22
	Marlborough ⚓	73	46	66·0	50·5	58·3	− 1·7	4	0·36	−0·26	36	36
	Strathfield Turgiss ⚓	73	45	69·6	50·7	60·2	− 1·1	3	0·28	−0·12	*	*
	Dover	68	54	65·4	57·1	61·3	− 0·2	6	0·51	+0·05	*	*
	Hastings (St. Leonard's)	66	50	64·4	54·4	59·4	− 1·8	3	0·46	+0·01	26	26
	Southampton	72	48	67·6	53·5	60·6	− 1·0	7	0·51	?	32	32
	Hurst Castle	70	53	67·0	56·1	61·6	+ 0·4	7	0·53	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	64	50	61·8	53·0	57·4	+ 0·5	6	2·06	?	*	*
	Glasgow	70	51	63·8	53·3	58·6	+ 1·6	5	1·10	+0·20	16	16
	Ardrossan	67	53	62·4	54·6	58·5	+ 1·2	6	0·86	−0·04	*	*
	Silloth (Cumberland)	69	46	66·6	51·6	59·1	− 0·3	5	0·45	−0·25	36	36
	Douglas (Isle of Man)	65	47	62·1	49·5	55·8	− 1·8	5	1·00	+0·20	51	51
7. ENGLAND, N.W.	Barrow-in-Furness	66	50	63·1	54·6	58·9	− 0·8	5	1·84	?	*	*
	Stonyhurst	68	43	63·9	50·2	57·1	− 2·1	6	1·25	+0·19	35	35
	Blackpool ⚓	66	44	62·7	51·1	58·4	− 1·7	4	0·68	+0·13	44	44
	Manchester										*	*
	Liverpool Obsy (Bidston)	68	50	63·6	54·6	59·1	− 1·4	5	0·44	−0·02	*	*
	Llandudno ⚓	65	51	63·2	54·0	58·6	− 1·8	4	0·47	−0·03	31	31
	Holyhead	65	51	63·3	54·0	58·7	− 0·9	5	0·77	+0·17	*	*
8. ENGLAND, S.W.	Pembroke	63	52	60·6	55·0	57·8	− 1·1	5	0·46	−0·14	36	36
	Arlington (N. Devon)	69	50	64·3	52·6	58·5	− 1·0	5	1·41	?	*	*
	Cullompton ⚓	71	47	66·9	53·1	60·0	− 1·4	5	1·11	?	41	41
	Falmouth	66	53	63·8	54·7	59·3	− 1·5	4	0·46	−0·19	37	38
	Plymouth	69	51	67·0	56·0	61·5	− 0·2	4	0·30	−0·30	40	41
	Prawle Point	66	51	63·9	54·7	59·3	0·0	4	0·40	?	*	*
9. IRELAND, N.	Londonderry	68	48	65·1	49·1	57·1	− 1·2	5	0·30	−0·54	*	*
	Mullaghmore	66	50	61·9	52·1	57·0	− 1·9	6	0·32	?	*	*
	Markree Castle	66	41	62·7	48·5	55·6	− 3·3	5	0·43	−0·46	39	39
	Brookeborough	65	44	62·7	48·5	55·6	− 3·5	5	0·69	?	*	*
	Armagh	66	50	63·0	51·3	57·2	− 1·8	5	0·28	−0·33	36	36
	Donaghadee	69	48	64·4	51·4	57·9	+ 0·2	5	0·81	?	*	*
10. IRELAND, S.	Dublin	69	51	64·0	52·7	58·4	− 0·9	2	0·10	−0·49	40	40
	Parsonstown	66	43	62·6	49·4	56·0	− 3·1	6	0·54	−0·26	35	35
	Waterford	65	43	63·4	49·4	56·4	− 3·2	6	0·38	−0·44	*	*
	Roche's Point	66	47	64·6	51·1	57·9	− 2·0	1	0·14	−0·67	*	*
	Valencia	66	49	63·9	52·0	58·0	− 1·1	5	0·31	−0·61	39	39
	Foynes	66	45	62·4	50·8	56·6	− 2·1	5	0·61	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) Robert H. Scott,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, AUGUST 28, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) ,Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	**1.** SCOTLAND, E.	70	45	63	50	57	1 above.	6	8	1 more.	24	24
	2. ENGLAND, N.E.	65	43	61	49	55	2 below.	5	15	9 more.	26	27
	3. ENGLAND, E.	66	42	63	50	57	3 below.	5	10	5 more.	24	25
	4. MID. COUNTIES	66	40	61	49	55	5 below.	5	10	4 more.	23	24
	5. ENGLAND, S.	68	43	65	51	58	3 below.	5	8	3 more.	32	33
Principal Grazing, &c. Districts.	**6.** SCOTLAND, W.	66	43	61	50	55	1 below.	6	12	6 more.	30	30
	7. ENGLAND, N.W.	62	45	59	51	55	4 below.	6	15	8 more.	15	15
	8. ENGLAND, S.W.	67	46	62	52	57	3 below.	6	14	7 more.	30	31
	9. IRELAND, N.	66	45	60	49	54	4 below.	6	16	8 more.	16	16
	10. IRELAND, S.	66	46	60	50	55	3 below.	6	13	4 more.	20	21

General Remarks.

Weather has been very dull, rainy, and unseasonable in all parts of the Kingdom. At some stations over central England thunder and lightning have been experienced.

Temperature has continued slightly above the mean in "Scotland, E.", but in all other districts a deficit is shown, amounting in most places to 3° or 4°, and in the "Midland Counties" to 5°. The maxima have been very low for the season, the highest reading registered (at Leith) being only 70°, while in the N.W. of England the thermometer did not rise above 62° during the whole period. The minima, which occurred in the northern and western districts on the 24th, and over the greater part of England on the 28th, varied from 40° in the "Midland Counties" to 46° in "England, S.W." and "Ireland, S."

Rainfall has been considerably more than the mean in nearly all districts.

Bright sunshine has been very deficient in all parts of the country, the percentages of possible duration being as low as 15 in "England, N.W.", 16 in "Ireland, N.", and 21 in "Ireland, S."; while the highest percentage (in "England, S.") has been only 33.

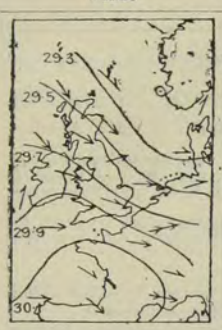
Depressions observed.—Barometrical pressure during this period has been subject to sudden and considerable variations, three well defined and deep depressions, as well as some local secondary disturbances, having travelled in an easterly direction across our Islands. The wind consequently varied in direction between S.W. and N.W., and, though moderate to fresh generally, increased to a gale on nearly all our more southern coasts on the 23rd, and again in some parts of the Channel on the 25th.

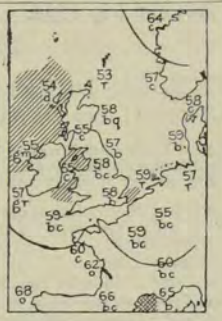
R 3440. 470.—9/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending August 28, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 22.

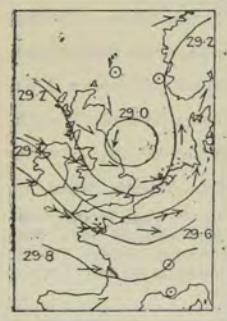
Weather fair at first, but rapidly becoming squally and wet in the W. and subsequently in the eastern districts also. Rainfall very heavy locally in the W. and N.

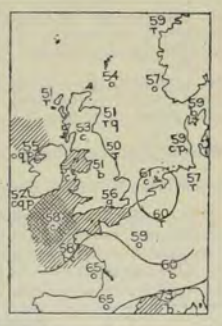
Temperature low everywhere, the maxima ranging from 60° to 65°; succeeding night rather cold over Ireland.

Wind strong to a gale from W. in the morning, but subsequently lulling, and backing somewhat except in the N. where it fell light from N.W.

Sea rough in N.W., W., and S.E.

Barometer rising at first in the rear of a depression passing away to eastward, but soon falling fast again as a new disturbance advanced over Ireland from the Atlantic.





Wednesday, August 23.

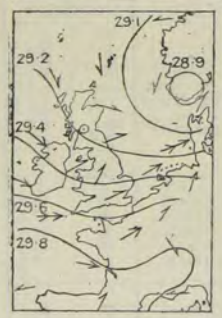
Weather rough, stormy, and cold, except in the N., but not so rainy as on 22nd; sky tending to clear later on; lightning seen in S.E. of England.

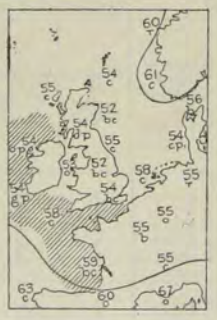
Temperature still very low—maxima only 60° to 66°—and night rather cold at all inland stations.

Wind blowing a fresh to strong gale from W. and N.W., except at the northern stations where it was moderate from between N.W. and N.E. Gale lulling generally as day advanced.

Sea very rough in W. and S.

Barometer rising again as the depression noticed in the W. on evening of 22nd passed over. Readings highest over Peninsula, lowest to northward and north-eastward of our Islands.





Thursday, August 24.

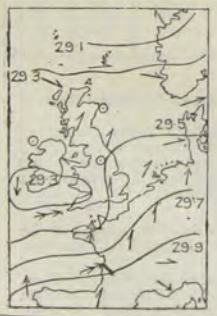
Weather cold, squally, and showery very generally, but rather less cold in some parts of Scotland than elsewhere.

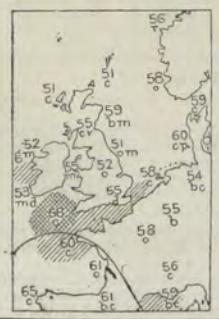
Temperature even lower than on 23rd, maxima being only 60° to 64°, except at Leith where 70° was reached.

Wind westerly to north-westerly, strong to moderate, squally and gusty, and showing very little, if any, tendency to lull during the day.

Sea rough in the S. and extreme W., moderate to slight elsewhere.

Barometer still highest in far S.; rising slowly nearly all day, but beginning to fall again at Valencia towards night. Yesterday's depression travelling away over Scandinavia.





Friday, August 25.

Weather moderately quiet over Scotland, but again breaking up entirely over Ireland and England; rainfall not very heavy.

Temperature showing no decided tendency to rise. The maximum at Leith was 68° and in London 67°, but these were local; the values in most places did not rise above 63° or 64°—in Ireland the maxima were below 60°.

Wind varying in the northern districts, but blowing a gale again between S.W. and N.W. in the S.W., S., and S.E.

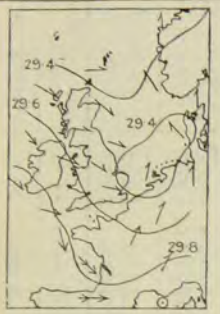
Sea high in the S., rough in the far W.

Barometer falling very suddenly again as a depression with two minima came over our south-western and southern districts from the Atlantic, and subsequently rose rapidly in Ireland as the centre moved eastwards.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Saturday, August 26.

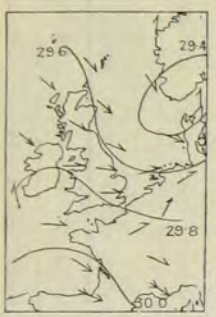
Weather again gusty, showery, and unsettled, very unseasonable. Rain heavy at Shields and on the eastern shore of the North Sea. No important change during day.

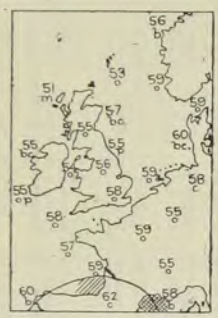
Temperature still low generally, the maxima over our inland counties ranging from 63° to 66°.

Wind north-westerly, fresh to strong in most places but light to moderate on our eastern coasts.

Sea still rough in extreme W. and S.

Barometer highest to south-westward of our Islands, lowest in N. Yesterday's depression now over the North Sea and moving north-eastwards; very shallow subsidiary disturbances with us.





Sunday, August 27.

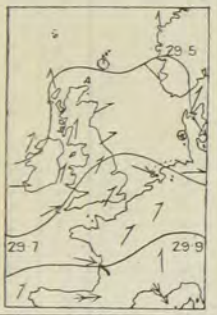
Weather quieter than of late, and not quite so showery, but showing no other improvement worth noting.

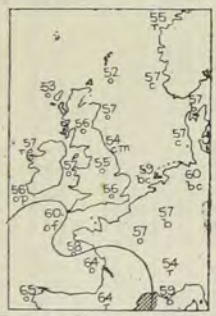
Temperature continuing low (maxima 60° to 64°, except at Leith).

Wind chiefly westerly, light to moderate in force, but backing to south-eastward on our south-western coasts, and blowing from that point for several hours.

Sea moderate to slight.

Barometer still rising in N. and E. Small depression passing in a south-easterly direction outside our S.W. coasts, moving towards France.





Monday, August 28.

Weather still moderately quiet, but cloudy generally, and at times showery. Becoming unsettled again in the far W. towards night.

Temperature fallen in the N., unchanged elsewhere; maxima still very low for the season.

Wind south-westerly, light in the E. and S., moderate in the W. Strong south-westerly winds setting in over Ireland at night.

Sea slight till night, when it rose quickly in the far W.

Barometer still highest in far S. Shallow depression over Scandinavia, dispersing; another (small one) over France, also dispersing; a third off our N.W. coasts moving eastwards to Scotland; and a fourth (rather deep) approaching Ireland at night.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	59	49	56·4	49·9	53·2	−0·2	7	0·50	−0·05	*	*
	Stornoway	60	44	56·4	48·1	52·3	−1·9	7	0·80	−0·13	17	17
	Wick	64	44	60·7	47·9	54·3	+0·1	2	0·18	−0·51	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	52	60·9	54·7	57·8	−2·7	6	0·63	+0·03	*	*
	Jersey (Noirmont)	65	52	63·7	54·6	59·2	−2·2	7	1·30	+0·71	45	46

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	63	45	60·4	50·1	55·3	− 0·3	7	1·21	+0·51	*	*
	Aberdeen	65	48	63·1	50·6	56·9	+ 1·4	6	0·54	−0·21	24	24
	Leith	70	46	66·3	48·9	57·6	+ 0·6	6	0·52	−0·08	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	44	60·4	47·4	53·9	− 2·0	4	1·78	?	*	*
	Shields	62	47	60·1	49·0	54·6	− 1·9	6	3·36	+2·76	*	*
	Durham	65	43	63·6	46·6	55·1	− 1·4	5	1·71	+1·16	25	25
	Scarborough ⚓	65	48	60·9	50·4	55·7	− 1·9	5	0·64	+0·08	*	*
	York	65	46	62·7	49·0	55·9	− 2·9	7	0·54	−0·06	27	28
	Spurn Head	62	?48	60·9	51·6	56·3	− 2·0	5	0·92	?	*	*
3. ENGLAND, E.	Hillington ⚓	66	42	62·7	48·4	55·6	− 3·6	5	1·59	+1·03	19	19
	Yarmouth	64	48	63·1	50·9	57·0	− 2·7	5	0·87	+0·38	*	*
	Geldeston	66	46	63·6	49·9	56·8	− 3·3	6	0·87	+0·47	28	29
	Cambridge	66	46	63·9	51·1	57·5	− 3·6	4	0·87	+0·48	25	26
	Rothamsted	64	46	62·8	50·9	56·9	− 3·6	6	0·83	+0·33	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	65	45	62·1	48·1	55·1	− 4·0	5	0·60	+0·09	*	*
	Loughborough	63	48	61·1	51·3	56·2	− 3·7	5	0·85	+0·35	*	*
	Leicester	66	47	61·5	50·2	55·9	− 4·0	5	0·92	+0·32	18	19
	Birmingham (Oscott)										*	*
	Cheadle ⚓	60	44	58·1	48·0	53·1	− 5·3	6	1·56	?	*	*
	Churchstoke ⚓	62	45	59·2	48·1	53·7	− 5·0	7	1·07	?	19	20
	Hereford ⚓	64	43	62·1	49·0	55·6	− 4·3	5	0·87	+0·36	*	*
	Cirencester	63	40	60·9	48·7	54·8	− 5·1	6	1·19	+0·50	29	30
	Oxford	66	47	62·6	50·7	56·7	− 3·7	4	0·50	0·00	24	25
5. ENGLAND, S.	London†	67	47	65·0	50·9	58·0	− 3·8	4	0·45	−0·03	22	23
	Marlborough ⚓	65	43	62·9	48·4	55·7	− 3·2	5	1·38	+0·69	26	27
	Strathfield Turgiss ⚓	68	46	65·4	49·9	57·6	− 2·8	6	0·72	+0·30	*	*
	Dover	67	51	64·6	53·7	59·2	− 1·4	5	0·53	+0·04	*	*
	Hastings (St. Leonard's)	67	50	64·0	52·4	58·2	− 2·2	7	1·35	+0·88	40	41
	Southampton	67	49	65·1	51·6	58·4	− 2·4	5	0·68	?	39	40
	Hurst Castle	66	51	64·4	52·9	58·7	− 1·6	6	0·57	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	60	43	57·8	48·9	53·4	− 2·7	7	0·37	?	*	*
	Glasgow	64	47	61·2	49·3	55·3	− 0·9	4	0·94	+0·02	38	38
	Ardrossan	64	49	61·1	51·4	56·3	− 0·1	5	0·95	−0·03	*	*
	Silloth (Cumberland)	66	47	63·5	50·8	57·2	− 1·3	7	1·81	+1·06	27	28
	Douglas (Isle of Man)	64	47	59·9	49·4	54·7	− 2·0	7	1·93	+1·13	24	24
7. ENGLAND, N.W.	Barrow-in-Furness	62	50	60·4	52·4	56·4	− 2·2	6	1·60	?	*	*
	Stonyhurst	61	48	?59·0	?49·8	?54·4	?− 3·7	5	2·57	+1·47	17	17
	Blackpool ⚓	61	50	59·6	53·0	56·3	− 2·5	7	1·01	+0·35	21	21
	Manchester	61	45	58·2	48·6	53·4	− 5·6	6	1·60	+0·82	*	*
	Liverpool Obsy (Bidston)	60	48	58 9	52·0	55·5	− 4·0	7	1·23	+0·71	*	*
	Llandudno ⚓	60	50	59·3	52·0	55·7	− 4·1	6	1·57	+1·00	7	7
	Holyhead	61	49	59·7	52·1	55·9	− 3·2	5	1·22	+0·56	*	*
8. ENGLAND, S.W.	Pembroke	62	51	59·4	52·6	56·0	− 1·9	6	0·91	+0·22	25	26
	Arlington (N. Devon)	63	48	59·7	50·0	54·9	− 3·8	6	3·47	?	*	*
	Cullompton ⚓	65	46	63·3	49·6	56·5	− 4·0	6	1·19	?	29	30
	Falmouth	64	50	61·6	53·7	57·7	− 2·5	6	1·32	+0·67	34	35
	Plymouth	67	47	64·2	52·2	58·2	− 2·7	6	0·78	+0·12	30	31
	Prawle Point	64	49	61·7	51·6	56·7	− 1·7	6	0·77	?	*	*
9. IRELAND, N.	Londonderry	63	45	59·8	47·1	53·5	− 3·7	7	1·30	+0·45	*	*
	Mullaghmore	61	49	58·4	50·9	54·7	− 3·4	7	1·56	?	*	*
	Markree Castle	66	45	59·7	47·4	53·6	− 4·5	7	1·97	+1·09	14	14
	Brookeborough	62	47	59·8	48·1	54·0	− 4·2	6	1·82	?	*	*
	Armagh	61	47	58·8	49·5	54·2	− 3·9	6	1·79	+1·17	17	17
	Donaghadee	63	46	61·6	49·6	55·6	− 1·2	5	1·20	?	*	*
10. IRELAND, S.	Dublin	62	48	59·9	50·6	55·3	− 3·0	4	0·59	+0·02	20	20
	Parsonstown	61	47	60·1	49·1	54·6	− 4·0	6	0·98	+0·16	21	21
	Waterford	66	46	61·3	49·6	55·5	− 3·4	7	1·07	+0·22	*	*
	Roche's Point	63	50	60·4	50·7	55·6	− 3·4	6	0·83	−0·06	*	*
	Valencia	62	50	61·0	51·9	56·5	− 2·3	7	2·14	+1·14	20	21
	Foynes	62	48	59·0	50·0	54·5	− 3·7	7	1·97	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, SEPTEMBER 4, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) ,Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	70	44	61	50	55	0 (average).	6	14	7 more.	23	24
	2. ENGLAND, N.E.	70	44	63	51	57	0 (average).	6	5	1 less.	24	25
	3. ENGLAND, E.	71	42	65	51	58	1 below.	5	4	1 less.	30	32
	4. MID. COUNTIES	71	41	64	51	58	1 below.	5	9	3 more.	26	27
	5. ENGLAND, S.	71	44	65	54	59	0 (average).	5	10	4 more.	32	34
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	67	38	62	49	56	1 below.	5	13	5 more.	29	30
	7. ENGLAND, N.W.	67	43	61	52	57	2 below.	5	10	2 more.	16	17
	8. ENGLAND, S.W.	68	46	62	53	58	1 below.	6	18	10 more.	29	31
	9. IRELAND, N.	72	43	62	50	56	1 below.	5	11	3 more.	21	22
	10. IRELAND, S.	70	46	63	52	57	1 below.	6	14	6 more.	28	30

General Remarks.

Weather has again been gloomy and unsettled in all districts. Rain has been very general, and, excepting in the N.E. and E. of England, the amounts measured have been large. In some parts of Great Britain thunderstorms have been experienced.

Temperature, although higher than during last week, has again been in a little below the mean in most places, but in "England, S.", "Scotland, E.", and "England, N.E." it has been about equal to the mean for the season. The maxima, which were registered on various days in different districts, ranged from 67° in "England, N.W." and "Scotland, W.", to 71° over eastern, central, and southern England, and 72° in "Ireland, N." The thermometer was generally lowest on 31st August, when it fell to 38° in "Scotland, W.", 41° in the "Midland Counties", and to between 42° and 46° elsewhere.

Rainfall has been slightly less than the mean in "England, E." and "England, N.E.", but more in all other districts. In Scotland, the S. of Ireland, and the S.W. of England the excess was large.

Bright sunshine does not differ materially from that reported last week, the percentages varying from 17 in "England, NW." to 34 in "England, S."

Depressions observed.—Barometrical pressure over our Islands and their neighbourhood has again been kept in an unsettled state by several depressions, more or less serious, which travelled in an easterly direction. The wind has consequently varied in direction between S. and N.W., and during the earlier part of the period rose to a strong breeze or gale in nearly all parts of the Kingdom.

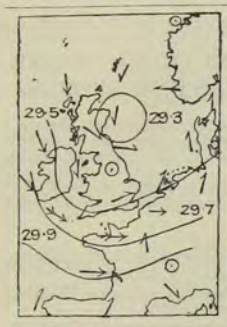
R 3528. 470.—9/82. Wt. 283. E. & S.

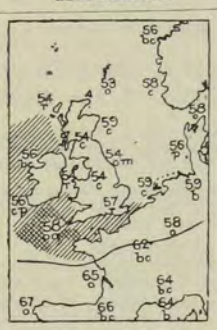
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending September 4, 1882.

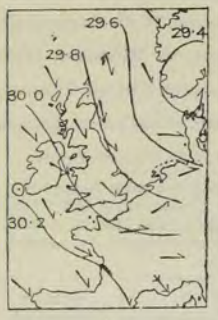
Synoptic Weather Charts.—8 a.m.

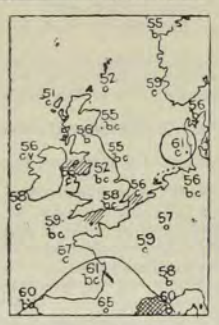
BAROMETER AND WIND.

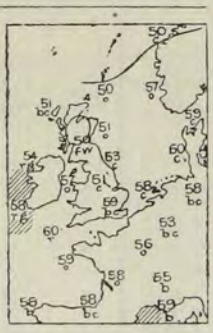
CLOUD, RAIN, SEA, AND TEMPERATURE.

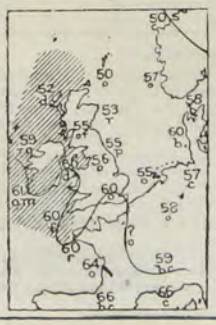












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 29.

Weather very unsettled again; raining almost everywhere, rough and wild in the S. and S.E. Improving generally towards night.

Temperature barely changed—the maxima being only 60° to 65°.

Wind blowing a gale from the westward over our south-western and southern districts and in the Channel, moderate to fresh breeze from the north-westward and northward in Ireland and Scotland. Gale subsequently lulling in the S. and wind veering.

Sea very rough in the W. and S.

Barometer very unsteady. Well-formed depression lying off the E. of Scotland at 8 A.M. and a subsidiary over Wales; both moving eastward and north-eastward as the day advanced.

Wednesday, August 30.

Weather finer than on 29th, but still rather showery at the eastern stations; becoming somewhat unsettled again in W. of Ireland towards night.

Temperature risen a little and attaining a height of 65° to 70° at several stations during the day.

Wind north-westerly, fresh, but moderating. Falling calm at Valencia, and subsequently backing to the southward all over the S. of Ireland.

Sea gone down greatly, but still rough at a few of our southern and western stations.

Barometer highest over the Bay of Biscay and rising generally. The two depressions of 29th now found over the S. of Scandinavia. Fresh fall commencing in Ireland during afternoon.

Thursday, August 31.

Weather again breaking up—first in the W. and then, later on, in the E. Rain falling heavily over our south-western districts, less heavily elsewhere.

Temperature changing little and irregularly; maxima to-day ranging from 61° to 64° in most districts.

Wind backing to S. and S.E.; blowing strongly in the S. of Ireland and freshly on our western coasts generally—light in the E.

Sea rising again in the W. and S.W.

Barometer highest over France, whence a ridge of high pressure extended northwards separating the depressions over the Baltic from a new set advancing from the Atlantic. The western depressions apparently moving northwards.

Friday, September 1.

Weather dull, wet, and unsettled generally—especially rainy in Ireland and the W. of Scotland.

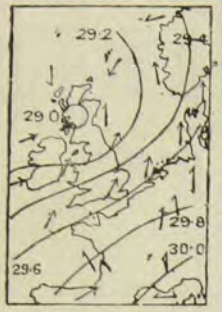
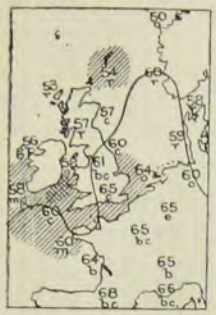
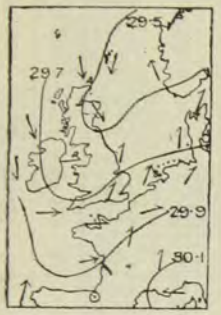
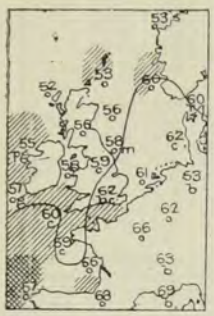
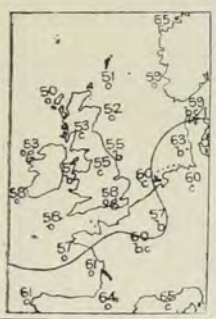
Temperature rising at first, but the maxima not exceeding 67° at any of our stations, and in most places not rising above 60° to 65°.

Wind southerly to south-westerly in England and Ireland, south-easterly in the N. Strong in force generally, and subsequently blowing a strong gale from S.E. in Caithness and a fresh gale from S.W. and W. over England.

Sea rough in the W. and N.W., and subsequently rising in the Channel.

Barometer falling everywhere; a depression travelling towards Scotland from the westward as night came on.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.
		**Saturday, September 2.** *Weather* still rough, squally, and unsettled, but inclined to improve in the W. and N. later in the day. Rainfall again heavy at some of the Irish and Scotch stations. Thunderstorm at Aberdeen. *Temperature* giving way again in the W., the change subsequently spreading eastwards. *Wind* very light and variable in Scotland, strong to a gale from S.W. over England, more moderate (and veering) in Ireland. *Sea* very rough in the W. and S. *Barometer* beginning to rise again in Ireland; the depression's centre now over Scotland, and moving very slowly and irregularly to the eastward.
		**Sunday, September 3.** *Weather* beginning to improve, but still showery in several places. *Temperature* falling a little at first, but, under a clearing sky, rising to 71° in London, 70° at York, and 68° at other central stations in afternoon. *Wind* moderating from westward over England. A stiff northerly breeze setting in (early) over Scotland and Ireland, and spreading over the greater part of England towards night. *Sea* going down, but still rough in the S.; rather so in the far N. *Barometer* rising briskly; yesterday's depression moving away to the eastward and gradually breaking up.
		**Monday, September 4.** *Weather* much finer than of late; air dry and sky clearing. Appearance has settled in extreme W. and N.W. at night. *Temperature* decreased slightly. *Wind* north-westerly to northerly almost everywhere, light to moderate in force; but a southerly breeze again appearing at Stornoway, and later on at Valencia also. *Sea* slight or smooth on our coasts. *Barometer* highest in W., and continuing to rise till the afternoon, when a slight fall commenced in the W. and N.W. Anticyclone over our south-western districts in afternoon and evening.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
Scotland, N.	Sumburgh Head	59	43	55·3	47·7	51·5	−1·4	6	1·14	+0·59	*	*
	Stornoway	59	45	56·0	48·7	52·4	−0·9	6	0·79	−0·21	17	18
	Wick	65	46	58·0	49·4	53·7	0·0	7	1·14	+0·44	*	*
Channel Islands	Scilly (St. Mary's)	63	54	61·3	56·0	58·7	−0·4	7	0·73	−0·02	*	*
	Jersey (Noirmont)	68	54	64·6	56·1	60·4	−0·8	5	0·32	−0·29	41	44

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	62	47	58 7	50·4	54·6	− 0·4	6	1·13	+0·43	*	*
	Aberdeen	65	47	60·7	50·1	55·4	+ 0·5	6	2·17	+1·38	23	24
	Leith	70	44	64·4	48·7	56·6	+ 0·2	5	0·82	+0·22	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	45	59·9	49·0	54·5	− 0·9	6	0·45	?	*	*
	Shields	65	49	61·0	51·1	56·1	+ 0·4	6	0·47	−0·13	*	*
	Durham	69	44	63·3	48·7	56·0	0·0	6	0·48	−0·12	22	23
	Scarborough ℞	67	50	63·0	53·5	58·3	+ 1·3	6	0·37	−0·24	*	*
	York	70	46	65·9	50·9	58·4	+ 0·4	7	0·94	+0·26	25	26
	Spurn Head	67	51	62·1	53·9	58·0	+ 0·3	5	0·46	?	*	*
3. ENGLAND, E.	Hillington ℞	69	42	65·5	56·2	57·9	− 0·5	5	0·41	−0·19	27	29
	Yarmouth	70	45	64·0	51·7	57·9	− 1·2	5	0·40	−0·19	*	*
	Geldeston	71	43	65·6	51·4	58·5	− 1·0	5	0·33	−0·16	35	37
	Cambridge	69	43	66·0	51·7	58·9	− 1·5	5	0·35	−0·11	28	30
	Rothamsted	69	43	65·0	51·1	58·1	− 1·6	7	0·62	+0·07	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	41	65·9	50·6	58·3	− 0·2	5	0·48	−0·07	*	*
	Loughborough	68	44	65·0	52·3	58·7	− 0·3	5	0·73	+0·14	*	*
	Leicester	67	45	64·8	52·2	58·5	− 0·5	7	0·71	+0·11	26	27
	Birmingham (Oscott)										*	*
	Cheadle ℞	63	45	60·6	49·7	55·2	− 2·4	6	1·14	?	*	*
	Churchstoke ℞	67	44	62·2	49·5	55·9	− 2·1	5	0·79	?	22	22
	Hereford ℞	67	46	64·9	51·3	58·1	− 1·0	4	0·82	+0·22	*	*
	Cirencester	71	44	64·1	48·9	56·5	− 2·7	6	1·69	+0·97	28	30
	Oxford	67	46	64·6	52·9	58·8	− 0·7	5	0·86	−0·29	28	30
5. ENGLAND, S.	London†	71	45	66·9	53·4	60·2	− 0·8	5	0·43	−0·08	30	32
	Marlborough ℞	67	44	63·6	51·3	57·5	− 0·8	6	1·37	+0·69	31	33
	Strathfield Turgiss ℞	70	44	65·4	51·8	58·6	− 1·2	5	0·99	+0·48	*	*
	Dover	65	51	64·0	55·4	59·7	− 0·2	5	1·08	+0·53	*	*
	Hastings (St. Leonard's)	68	51	64·8	55·1	60·0	+ 0·2	5	0·94	+0·41	31	33
	Southampton	68	49	64·6	53·5	59·1	− 0·6	5	1·15	?	34	36
	Hurst Castle	68	51	64·9	55·3	60·1	+ 0·4	5	0·85	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	63	40	59·6	48·0	53·8	− 1·8	6	1·24	?	*	*
	Glasgow	64	45	61·3	48·8	55·1	− 0·6	5	1·46	+0·46	22	23
	Ardrossan	67	42	61·7	49·9	55·8	+ 0·1	5	1·82	+0·82	*	*
	Silloth (Cumberland)	67	38	64·6	50·3	57·5	− 0·4	6	0·81	+0·01	31	33
	Douglas (Isle of Man)	63	41	60·9	49·3	55·1	− 0·9	4	1·34	+0·54	33	35
7. ENGLAND, N.W.	Barrow-in-Furness	65	47	61·6	51·9	56·8	− 1·1	5	0·82	?	*	*
	Stonyhurst	63	43	60·5	47·7	54·1	− 3·3	6	1·80	+0·62	15	16
	Blackpool ℞	66	44	61·2	52 0	56·6	− 1·7	5	1·07	+0·32	14	15
	Manchester	64	43	61·7	49·6	55·7	− 2·6	5	1·24	+0·43	*	*
	Liverpool Obsy (Bidston)	66	49	61·1	52·6	56·9	− 2·0	4	0·63	−0·07	*	*
	Llandudno ℞	67	51	60·9	53·9	57·4	− 1·9	5	0·56	−0·12	19	20
	Holyhead	62	52	60·4	53·6	57·0	− 1·6	6	0·85	+0·14	*	*
8. ENGLAND, S.W.	Pembroke	61	52	59·7	54·6	57·2	0·0	6	1·35	+0·56	23	30
	Arlington (N. Devon)	64	46	61·1	50·7	55·9	− 2·2	7	2·21	?	*	*
	Cullompton ℞	66	46	64·2	51·4	57·8	− 2·0	6	1·76	?	37	39
	Falmouth	63	54	61·7	55·2	58·5	− 1·2	7	1·96	+1·28	27	29
	Plymouth	67	52	63·7	54·5	59·1	− 1·2	6	1·95	+1·17	24	26
	Prawle Point	68	50	63·4	53·0	58·2	+ 0·4	5	1·37	?	*	*
9. IRELAND, N.	Londonderry	72	43	62·5	47·8	55·2	− 1·3	6	1·30	+0·45	*	*
	Mullaghmore	68	52	61·7	53·1	57·4	− 0·1	5	1·24	?	*	*
	Markree Castle	70	48	62·5	50·1	56·3	− 1·3	7	1·16	+0·31	22	23
	Brookeborough	67	47	61·1	50·1	55·6	− 1·9	4	1·53	?	*	*
	Armagh	66	48	60·5	50·7	55·6	− 1·9	5	0·77	+0·09	20	21
	Donaghadee	64	43	61·7	50·7	56·2	0·0	3	0·79	?	*	*
10. IRELAND, S.	Dublin	70	48	62·6	52·3	57·5	− 0·1	4	0·81	+0 25	36	38
	Parsonstown	67	46	63·1	50·6	56·9	− 1·4	4	1·08	+0·23	28	30
	Waterford										*	*
	Roche's Point	64	50	62·6	52·3	57·5	− 0·8	5	1·66	+0·71	*	*
	Valencia	64	48	62·1	53·0	57·6	− 0·6	6	3·57	+2·51	21	22
	Foynes	68	47	62·6	52·4	57·5	− 0·3	5	1·38	?	*	*

Stations marked ℞ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, SEPTEMBER 11, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) ,Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	71	39	63	44	54	1 below.	2	1	6 less.	52	56
	2. ENGLAND, N.E.	68	35	62	46	54	1 below.	2	1	6 less.	38	42
	3. ENGLAND, E.	69	37	64	46	55	3 below.	2	4	2 less.	40	44
	4. MID. COUNTIES	70	35	64	44	54	4 below.	2	2	5 less.	40	43
	5. ENGLAND, S.	70	37	65	49	57	2 below.	3	5	2 less.	38	42
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	67	37	61	46	53	2 below.	2	3	8 less.	47	51
	7. ENGLAND, N.W.	65	39	61	48	54	3 below.	2	2	7 less.	38	34
	8. ENGLAND, S.W.	68	38	62	48	55	3 below.	2	2	6 less.	54	60
	9. IRELAND, N.	68	35	61	45	53	3 below.	3	4	4 less.	45	50
	10. IRELAND, S.	65	39	61	47	54	3 below.	3	2	7 less.	47	52

General Remarks.

Weather has been much finer than of late, and, except on the 5th and during the last two days, scarcely any rain has fallen.

Temperature has been below the mean in all districts, the deficit in the "Midland Counties" being as much as 4°. The maximum readings ranged from 65° in "England, N.W." and "Ireland, S.", to 70° over southern and central England, and to 71° in the E. of Scotland; while the minima, which occurred in some places on the 7th and in others on the 11th, were as low as 35° in N. of Ireland and eastern and central England, and ranged from 37° to 39° elsewhere.

Rainfall has been considerably less than the mean in all districts.

Bright sunshine shows a great increase in duration in all parts of the Kingdom, the percentages varying from 41 in "England, N.W." to 56 in "Scotland, E.", and to 60 in "England, S.W."

Depressions observed.—At the commencement of the period an area of high pressure lay over France and the S. of England, while a depression was shown near the Shetlands and a small subsidiary disturbance over the St. George's Channel. These conditions soon changed, and by 8 A.M. on the 7th a well defined anticyclone had advanced from the westward, and until the afternoon of the 9th covered nearly the whole of Ireland and England. The south-westerly winds which had previously prevailed consequently gave way to light easterly breezes in the S.E. and S., variable southerly airs in the W., and westerly breezes in the N. After this date, however, the area of high pressure moved away in a north-easterly direction, and a depression reached the N.W. of Scotland from the Atlantic, the wind returning to the south-westward.

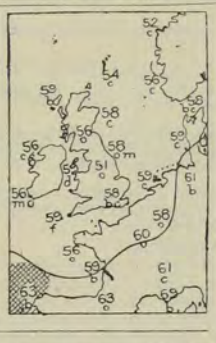
R 3598. 470.—9/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending September 11, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, September 5.

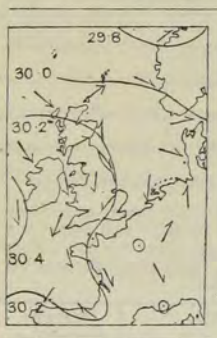
Weather cloudy and changeable, showery in most places and very rainy over our south-eastern counties. Improving considerably in the W. and N. during the day.

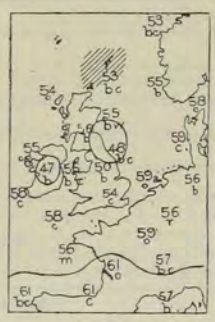
Temperature rising during the early hours, but attaining maxima of only 63° to 66° over England during the day. Succeeding night cold.

Wind south-westerly to north-westerly, moderate in force, and subsequently veering to N.W. very generally.

Sea moderate to smooth.

Barometer highest (30·2 and upwards) over France and the Bay of Biscay, lowest in the N. Subsidiary depression developing over our southern counties during the day.





Wednesday, September 6.

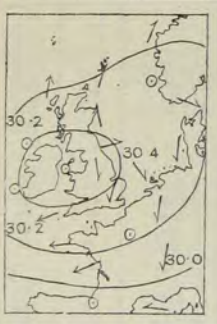
Weather improving considerably; no rain recorded at any of our stations, and sky clearing generally.

Temperature lower in the morning than at 8 A.M. on the 5th, but rising during the day to 69° at Leith and to between 62° and 66° over our Islands generally.

Wind backing to W. in the northern districts, but veering to N.E. in the S., and lulling to nearly a calm over Ireland.

Sea smooth except on our extreme northern and south-western coasts.

Barometer rising generally; anticyclone advancing over us from the westward.



Thursday, September 7.

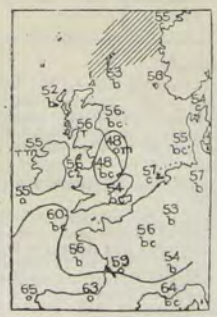
Weather fine generally, but some rain experienced in Scotland and the extreme N. of Ireland.

Temperature low in early morning, but again rising during the day to 69° at Leith, 66° to 64° elsewhere.

Wind moderate to fresh from W. and S.W. over our northern districts, and from N.E. in the S. Calm or nearly so at the western and central stations.

Sea moderate both in the N. and S., smooth elsewhere.

Barometer highest (30·4 +) in centre of an anticyclone, over our western and central stations; beginning to fall a little in the W. Depression approaching the N. of Scotland from the westward.



Friday, September 8.

Weather very fine over the United Kingdom, but rather foggy in the morning at our inland stations.

Temperature not materially changed in morning, but rising to between 67° and 71° over the inland counties in the afternoon.

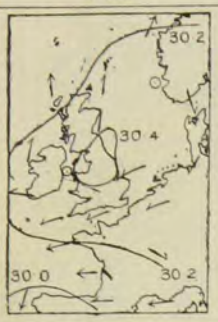
Wind westerly in the N., and easterly to north-easterly in the S.; light to moderate everywhere, and calm or nearly so at the central stations.

Sea smooth.

Barometer unsteady at first, then rising in the N., in the rear of a large depression which passed eastwards, by our extreme northern coasts, to Norway. Another depression appearing over the N. of Spain.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 9.

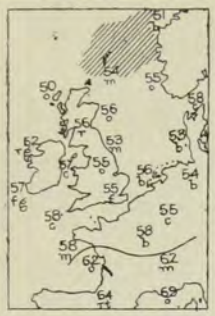
Weather still very fine on the whole, but a considerable quantity of rain falling in the more northern parts of Scotland and Ireland during the later hours. Thunderstorms in S. of France towards night.

Temperature rising generally, reading 71° at Leith, 70° at Loughborough, and 67° in London during the afternoon.

Wind backing towards S. in the N. and increasing to a gale at Stornoway, but showing no important change in the S.

Sea rough in the far N., smooth generally elsewhere.

Barometer beginning to fall decidedly in the W. and N., and, in a less degree over the Bay of Biscay and France. Anticyclone moving eastwards and north-eastwards, depressions appearing off our extreme N.W. coasts in addition to that over Spain.



Sunday, September 10.

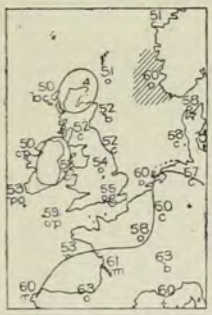
Weather becoming unsettled; showers of rain occurring very generally in W. and N., thunderstorms over France, no rain over our south-eastern counties.

Temperature, though higher at 8 a.m. than on 9th, not rising to so high a maximum during the daytime.

Wind becoming much more generally south-westerly; the easterly wind in the S. almost entirely dying out.

Sea smooth except in the far N. and N.W.

Barometer falling quickly. Depression off our N.W. coasts large and well marked, but not deep; thunderstorm depressions over France.



Monday, September 11.

Weather gloomy and not at all settled. A good deal of rain falling in the S., and showers locally elsewhere.

Temperature rather higher at 8 A.M. than on the 10th, but not rising above 65° at any of our stations during the day.

Wind north-westerly in the W. and S., south-westerly to southerly in the N., and south-easterly in Norway; not strong at any of our stations.

Sea smooth.

Barometer again fallen considerably. Depression in the N. still holding; many subsidiary disturbances over our Islands, the Netherlands, and France.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	58	45	56·6	48·4	52·5	+0·4	4	0·96	+0·43	*	*
	Stornoway	58	43	56·3	46·3	51·3	−0·9	5	0·84	−0·21	42	45
	Wick	65	43	59·0	46·1	52·6	−0·1	3	0·32	−0·38	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	54	61·4	55·1	58·3	−1·1	2	0·07	−0·82	*	*
	Jersey (Noirmont)	65	54	64·0	55·0	59·5	−0·9	2	0·26	−0·39	34	38

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	65	39	61·1	45·0	53·1	− 0·7	3	0·14	−0·58	*	*
	Aberdeen	65	40	62·3	45·0	53·7	− 0·1	2	0·06	−0·74	52	56
	Leith	71	39	65·7	43·3	54·5	− 0·6	1	0·13	−0·47	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	35	60·9	42·7	51·8	− 2·5	1	0·08	?	*	*
	Shields	66	41	61·6	45·1	53·4	− 1·4	2	0·18	−0·43	*	*
	Durham	68	38	64·0	42·9	53·5	− 1·7	2	0·03	−0·57	40	43
	Scarborough ℳ	63	46	61·0	49·7	55·4	− 0·4	1	0·02	−0·66	*	*
	York	68	38	65·7	44·1	54·9	− 1·6	2	0·11	−0·60	37	41
	Spurn Head	63	48	60·4	52·1	56·3	− 0·1	2	0·13	?	*	*
3. ENGLAND, E.	Hillington ℳ	68	37	62·1	43·9	53·0	− 3·9	2	0·24	−0·36	30	33
	Yarmouth	64	49	63·1	52·6	57·9	− 0·1	2	0·37	−0·27	*	*
	Geldeston	69	40	64·7	46·4	55·6	− 2·6	3	0·54	+0·02	49	54
	Cambridge	68	40	65·0	43·3	54·2	− 4·9	1	0·12	−0·38	42	46
	Rothamsted	65	39	62·9	43·9	53·4	− 4·9	5	0·53	−0·07	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	35	66·7	43·0	54·9	− 2·5	2	0·08	−0·51	*	*
	Loughborough	70	39	65·4	43·1	54·3	− 2·6	2	0·04	−0·61	*	*
	Leicester	70	39	64·0	45·0	54·5	− 2·9	2	0·16	−0·44	24	26
	Birmingham (Oscott)										*	*
	Cheadle ℳ	64	43	61·3	45·1	53·2	− 2·9	2	0·18	?	*	*
	Churchstoke ℳ	65	37	61·6	40·1	50·9	− 5·7	2	0·05	?	41	45
	Hereford ℳ	66	37	63·5	42·6	53·1	− 4·4	1	0·07	−0·64	*	*
	Cirencester	65	40	62·3	44·9	53·6	− 4·2	2	0·28	−0·52	49	54
	Oxford	67	42	63·7	46·1	54·9	− 3·1	2	0·33	−0·29	44	47
5. ENGLAND, S.	London†	67	42	65·7	48·9	57·3	− 2·3	2	0·55	−0·01	32	35
	Marlborough ℳ	66	38	63·4	43·3	53·4	− 3·6	2	0·37	−0·48	41	45
	Strathfield Turgiss ℳ	69	37	66·1	42·8	54·5	− 4·1	2	0·37	−0·23	*	*
	Dover	65	55	63·1	56·1	59·6	+ 0·9	2	0·50	−0·12	*	*
	Hastings (St. Leonard's)	68	51	65·2	53·2	59·2	+ 0·5	4	1·25	+0·65	31	34
	Southampton	70	46	66·3	48·6	57·5	− 0·5	3	0·17	?	49	54
	Hurst Castle	67	47	65·0	49·3	57·2	− 1·3	3	0·18	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	63	43	58·8	46·5	52·7	− 2·0	5	0·91	?	*	*
	Glasgow	62	41	59·6	45·1	52·4	− 2·3	1	0·09	−0·95	41	45
	Ardrossan	63	48	60·0	49·3	54·7	+ 0·2	3	0·15	−0·89	*	*
	Silloth (Cumberland)	67	37	64·8	43·6	54·2	− 2·6	1	0·17	−0·68	53	58
	Douglas (Isle of Man)	64	39	60·9	43·7	52·3	− 2·5	2	0·19	−0·62	47	51
7. ENGLAND, N.W.	Barrow-in-Furness	64	46	61·9	50·0	56·0	− 0·4	2	0·26	?	*	*
	Stonyhurst	62	41	60·6	44·3	52·5	− 3·4	2	0·24	−1·01	31	34
	Blackpool ℳ	64	39	60·8	45·7	53·3	− 3·5	2	0·07	−0·78	40	43
	Manchester	65	42	61·4	44·3	52·9	− 4·0	2	0·14	−0·77	*	*
	Liverpool Obsy (Bidston)	65	45	61·4	48·1	54·8	− 3·0	2	0·15	−0·68	*	*
	Llandudno ℳ	63	47	60·2	48·2	54·2	− 4·1	3	0·42	−0·38	42	46
	Holyhead	64	49	61·0	51·6	56·3	− 1·6	3	0·27	−0·51	*	*
8. ENGLAND, S.W.	Pembroke	63	48	59·9	50·6	55·3	− 0·6	2	0·37	−0·48	53	58
	Arlington (N. Devon)	64	42	61·0	44·6	52·8	− 4·2	3	0·79	?	*	*
	Cullompton ℳ	68	38	64·3	43·8	54·1	− 4·5	2	0·18	?	52	58
	Falmouth	64	49	61·2	51·0	56·1	− 2·8	3	0·05	−0·65	53	59
	Plymouth	66	45	63·9	48·2	56·1	− 3·2	3	0·05	−0·85	57	63
	Prawle Point	66	46	63·0	48·9	56·0	− 0·7	1	0·02	?	*	*
9. IRELAND, N.	Londonderry	68	39	62·8	43·1	53·0	− 2·2	4	0·35	−0·54	*	*
	Mullaghmore	65	45	60·7	50·9	55·8	− 0·5	6	1·22	?	*	*
	Markree Castle	65	35	62·4	43·5	53·0	− 3·6	3	0·36	−0·44	44	48
	Brookeborough	65	37	61·5	42·7	52·1	− 4·2	2	0·34	?	*	*
	Armagh	64	41	60·1	45·3	52·7	− 3·5	3	0·21	−0·50	46	51
	Donaghadee	64	41	61·1	45·6	53·4	− 1·6	1	0·19	?	*	*
10. IRELAND, S.	Dublin	63	44	60·0	47·7	53·9	− 2·4	2	0·14	−0·41	45	50
	Parsonstown	65	39	?61·0	?44·4	?52·7	?− 4·7	2	0·12	−0·73	49	54
	Waterford	65	40	62·1	44·1	53·1	− 3·8	3	0·14	−0·76	*	*
	Roche's Point	63	46	61·6	49·1	55·4	− 1·8	2	0·27	−0·78	*	*
	Valencia	63	43	61·6	49·0	55·3	− 2·1	3	0·26	−0·88	46	51
	Foynes	65	43	60·3	46·6	53·5	− 3·6	3	0·40	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, SEPTEMBER 18, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) ,Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	65	34	59	44	51	2 below.	5	11	4 more.	21	24
	2. ENGLAND, N.E.	64	34	58	45	51	4 below.	3	5	2 less.	31	35
	3. ENGLAND, E.	67	32	61	44	53	5 below.	3	6	0 (average).	32	37
	4. MID. COUNTIES	70	32	61	39	50	6 below.	3	2	5 less.	42	48
	5. ENGLAND, S.	70	33	62	43	52	6 below.	2	1	6 less.	42	49
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	64	36	58	45	51	3 below.	5	7	3 less.	34	38
	7. ENGLAND, N.W.	64	35	58	45	51	5 below.	4	7	3 less.	35	40
	8. ENGLAND, S.W.	66	31	59	44	51	6 below.	3	7	2 less.	44	51
	9. IRELAND, N.	62	32	57	45	51	4 below.	6	8	1 less.	31	35
	10. IRELAND, S.	62	34	58	45	51	5 below.	5	5	4 less.	38	43

General Remarks.

Weather has been more changeable and showery than during last week, although in places some very fine, clear days have been experienced. In the S. and S.E. of England sharp thunderstorms occurred on the 12th and 14th.

Temperature has been even lower than it was last week, the deficit being as much as 6° in "England, S.", the "Midland Counties", and "England, S.W.", 5° in the E., and N.W. of England and in the S. of Ireland, and from 2° to 4° elsewhere. The thermometer was generally highest on the 17th, when readings of 70° were reported over southern and central England; but in other parts of the Kingdom the maxima varied between 62° and 67°. The minima, which were registered on different dates in the various districts, were very low everywhere. At Cullompton (Devon) the sheltered thermometer fell to 31°, in "England, E.", "Midland Counties", and "Ireland, N." to 32°, and to between 33° and 36° elsewhere. On the grass readings were, of course, the much lower.

Rainfall has been rather more than the mean in "Scotland, E." and about equal to it in "England, E.", but less in all other districts. In "England, S." the fall has been very slight.

Bright sunshine shows an increase on that recorded last week over southern, central, and north-western England, but a considerable decrease in all other places. The percentages ranged from 24 in "Scotland, E." to 49 in "England, S.", and to 51 in "England, S.W."

Depressions observed.—During nearly the whole of this period two areas of comparatively high pressure were shown,—one over Scandinavia, and the other to the westward or south-westward of our Islands. Between these regions (*i.e.*, over the North Sea and the N.E. of England) some shallow depressions travelled slowly in a northerly and north-westerly direction, and the wind, though very variable in places, was generally light or moderate from between N.W. and S.W.

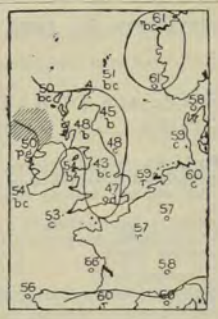
ERRATUM.—In the Report for week ending September 11th, the "Percentage of Possible Duration" in "England, N.W." should read 41.

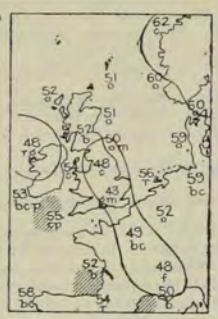
R 3646. 470.—9/82. Wt. 233. E. & S.

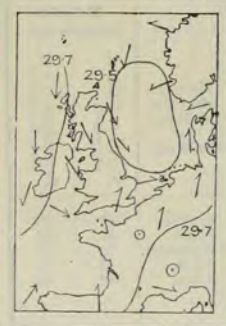
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending September 18, 1882.

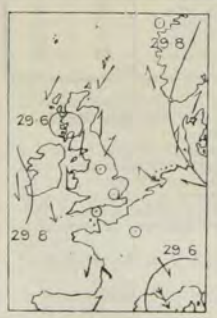
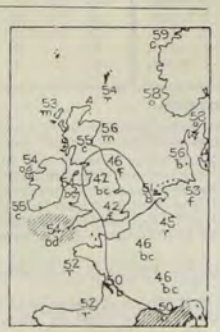
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, September 12.

Weather dull and rainy over France and our south-eastern counties, fine elsewhere, but subsequently becoming showery in most parts of England and in the E. of Scotland, with thunderstorms at the English stations.

Temperature fallen generally; low everywhere for the season; maxima ranging from 58° to 61° in England, but considerably higher than that in Norway and Sweden.

Wind varying greatly, north-westerly in Ireland, and northerly over our eastern counties; but south-westerly in Scotland, and easterly on the eastern shores of the North Sea.

Sea rather rough in the extreme W. only.

Barometer high both over northern Europe and off our S.W. coasts; depression over the Netherlands and southern parts of the North Sea, moving slowly to the northward.

Wednesday, September 13.

Weather improved over our south-eastern districts, but less settled elsewhere; rain falling, more or less, at most of the western and northern stations during the day. Lightning seen at night over our southern and south-eastern counties.

Temperature risen a little in the W. and N., fallen again over England; maxima ranging from 58° to 62° at the inland stations, but again much higher in Sweden; night very cold.

Wind now northerly to north-westerly all over our islands, light to moderate in force, but still easterly on the eastern shores of the North Sea.

Sea moderate to smooth generally.

Barometer unsteady. The depression in the E. moving very slowly to the northward and north-north-westward. Small shallow local disturbances appearing elsewhere.

Thursday, September 14.

Weather much finer at first in the southern districts, dull and very rainy in the N.E. and N. Thunderstorms experienced over our southern and south-eastern counties later on.

Temperature still very low generally, the maxima ranging from 58° to 62° even at our warmest stations, but again high over Scandinavia. Night very cold over England.

Wind northerly and north-westerly, light to moderate in force; varying a great deal in direction and force over our south-eastern counties during the day.

Sea very little disturbed.

Barometer still unsteady. Depression over the North Sea, beginning to move north-westward and westward. New depression appearing in S.W. of France, and moving first to the north-eastward, then northwards, and finally north-westwards.

Friday, September 15.

Weather much finer over our Islands than on the 14th, the air dry and cold, but hazy. A few showers falling locally with us during the day, and much rain in the S. of France.

Temperature at 8 a.m. much lower over England than on the 14th, but rising during the day to between 60° and 65° at our inland stations; succeeding night cold again.

Wind extremely variable; northerly in Ireland, easterly to southerly over Great Britain; not strong on any of our coasts.

Sea rather rough at the mouth of the Channel.

Barometer rising except in the W. and N.W. The two depressions noticed on 14th, now moving north-westwards and dispersing.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 16.

Weather varying greatly in different localities; showery in the W., fair elsewhere, but very foggy over England in the morning.

Temperature inclined to rise irregularly, the maxima attained over our inland counties ranging from 60° to 69°.

Wind exceedingly variable, owing to local irregularities in pressure, but finally becoming westerly in Ireland, south-westerly in Scotland, and variable from N.W. over England.

Sea rough in the far N., moderate to smooth elsewhere.

Barometer still relatively high over northern Europe and to the south-westward of Ireland, with a subsidiary anti-cyclone over England and the western part of the Channel. Pressure increasing, and subsidiary anticyclone dispersing later on.

Sunday, September 17.

Weather less fair than on the 16th, though dry and foggy at first over England. Local showers in most districts during the day.

Temperature risen at 8 a.m., but the maxima not exceeding those recorded on Saturday.

Wind light to moderate in force, and chiefly westerly to north-westerly in direction.

Sea moderate to smooth except off the N.W. of Ireland.

Barometer rising everywhere. Pressure still high in extreme S.W. and N.E., while shallow depressions lay over our extreme northern coasts, the North Sea, and Bay of Biscay.

Monday, September 18.

Weather fine at first in almost all places, but rain falling at times in our more western and northern districts later on. Brilliant aurora seen in the N. at night.

Temperature risen over England, fallen in Scotland and Ireland. Maxima in our Islands 60° to 64°, but much higher to the eastward of the North Sea.

Wind northerly and north-westerly, light to moderate, subsequently veering a little in the S.

Sea rough only off the extreme N.W. of Ireland.

Barometer highest in the W. and N., lowest in the E. and S.E., and beginning to fall in the S.W. and S. New but shallow depressions appearing at night, one over the Bay of Biscay the other over N. Germany.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	58	42	55·9	47·7	51·8	+0·3	6	0·41	−0·10	•	•
	Stornoway	58	42	54·7	45·0	49·9	−1·5	5	0·27	−0·83	32	36
	Wick	62	34	57·6	43·1	50·4	−1·7	6	0·60	−0·19	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	61	48	58·0	51·4	54·7	−4·2	7	0·62	−0·44	•	•
	Jersey (Noirmont)	62	46	59·0	49·6	54·3	−5·7	4	0·57	−0·12	54	62

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	60	39	57·1	44·7	50·9	− 2·1	5	1·86	+1·13	*	*
	Aberdeen	61	34	59·0	43·3	51·2	− 1·8	5	0·79	−0·03	21	24
	Leith	65	37	59·7	42·6	51·2	− 3·1	4	0·76	+0·16	*	*
2. ENGLAND, N.E.	Alnwick Castle	61	39	56·1	45·0	50·6	− 3·0	2	0·19	?	*	*
	Shields	60	40	56·1	44·6	50·4	− 3·7	2	0·35	−0·28	*	*
	Durham	64	34	58·7	41·7	50·2	− 4·4	4	0·93	+0·33	32	36
	Scarborough ℔	63	44	58·0	46·7	52·4	− 2·7	2	0·34	−0·36	*	*
	York	66	37	62·0	40·3	51·2	− 4·4	2	0·21	−0·49	29	33
	Spurn Head	61	47	58·3	48·4	53·4	− 2·2	5	0·71	?	*	*
3. ENGLAND, E.	Hillington ℔	67	35	62·0	43·1	52·6	− 3·4	2	1·13	+0·52	37	42
	Yarmouth	61	42	58·7	49·1	53·9	− 3·3	4	0·84	+0·14	*	*
	Geldeston	65	40	61·8	46·3	54·1	− 3·3	4	0·93	+0·35	21	26
	Cambridge	66	37	61·9	41·3	51·6	− 6·7	2	0·30	−0·25	37	42
	Rothamsted	65	32	61·1	39·8	50·5	− 6·9	3	0·03	−0·61	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	32	63·6	39·9	51·8	− 4·7	2	0·11	−0·49	*	*
	Loughborough	66	33	62·1	38·9	50·5	− 5·9	3	0·05	−0·65	*	*
	Leicester	67	34	62·7	40·0	51·4	− 4·9	4	0·05	−0·58	31	35
	Birmingham (Oscott)	67	33	60·6	38·6	49·6	− 6·2	2	0·06	−0·74	*	*
	Cheadle ℔	64	39	58·7	42·4	50·6	− 4·5	2	0·07	?	*	*
	Churchstoke ℔	64	33	58·5	36·1	47·3	− 8·5	6	1·01	?	39	44
	Hereford ℔	67	32	61·6	36·8	49·2	− 7·3	4	0·18	−0·61	*	*
	Cirencester	64	34	60·1	36·5	48·3	− 8·6	3	0·27	−0·57	48	55
	Oxford	67	35	62·1	40·0	51·1	− 6·0	2	0·12	−0·56	49	56
5. ENGLAND, S.	London†	69	37	62·4	41·4	51·9	− 6·8	2	0·05	−0·55	26	30
	Marlborough ℔	66	34	62·6	36·6	49·6	− 6·5	0	—	−0·89	53	61
	Strathfield Turgiss ℔	68	33	64·6	37·0	50·8	− 7·0	1	0·02	−0·67	*	*
	Dover	63	45	58·6	49·3	54·0	− 3·9	6	0·35	−0·33	*	*
	Hastings (St. Leonard's)	68	45	60·8	48·4	54·6	− 3·4	2	0·05	−0·60	32	37
	Southampton	70	37	64·7	41·1	52·9	− 4·3	1	0·12	?	58	67
	Hurst Castle	66	40	62·1	43·6	52·9	− 4·8	3	0·27	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	60	41	56·7	45·3	51·0	− 3·0	6	0·81	?	*	*
	Glasgow	58	36	56·9	43·6	50·3	− 3·8	5	0·81	−0·29	23	26
	Ardrossan	60	41	57·9	47·6	52·8	− 0·9	4	0·58	−0·47	*	*
	Silloth (Cumberland)	64	36	60·1	43·0	51·6	− 4·3	4	0·84	−0·07	41	47
	Douglas (Isle of Man)	60	37	57·9	44·1	51·0	− 2·9	4	0·60	−0·20	37	42
7. ENGLAND, N.W.	Barrow-in-Furness	61	45	58·7	47·4	53·1	− 2·4	3	0·64	?	*	*
	Stonyhurst	60	35	57·9	40·4	49·2	− 5·8	3	0·28	−1·02	36	41
	Blackpool ℔	61	38	57·9	42·2	50·1	− 5·8	5	0·55	−0·39	40	45
	Manchester	64	36	58·7	41·0	49·9	− 6·1	3	0·08	−0·92	*	*
	Liverpool Obsy (Bidston)	62	42	58·1	46·0	52·1	− 4·9	4	0·61	−0·39	*	*
	Llandudno ℔	62	42	57·3	46·0	51·7	− 6·0	5	0·77	−0·13	29	33
	Holyhead	60	45	57·7	48·9	53·3	− 4·1	4	1·85	+1·04	*	*
8. ENGLAND, S.W.	Pembroke	58	46	56·1	49·4	52·8	− 2·2	3	0·61	−0·34	53	60
	Arlington (N. Devon)	63	36	57·7	41·4	49·6	− 6·6	6	1·50	?	*	*
	Cullompton ℔	66	31	61·1	36·9	49·0	− 8·8	3	0·66	?	45	52
	Falmouth	60	45	57·7	48·5	53·1	− 5·2	2	0·62	−0·09	39	45
	Plymouth	62	38	59·7	41·8	50·8	− 7·8	3	0·59	−0·46	40	45
	Prawle Point	62	43	61·1	45·4	53·3	− 2·6	2	0·38	?	*	*
9. IRELAND, N.	Londonderry	62	37	58·9	42·7	50·8	− 3·5	6	0·52	−0·38	*	*
	Mullaghmore	59	46	57·0	48·4	52·7	− 2·9	7	1·28	?	*	*
	Markree Castle	60	32	57·5	49·9	53·7	− 2·3	7	0·77	−0·03	31	35
	Brookeborough	60	33	56·7	41·0	48·9	− 6·6	6	0·48	?	*	*
	Armagh	57	39	55·8	43·1	49·5	− 5·9	5	0·52	−0·23	31	35
	Donaghadee	61	36	?58·3	?43·9	?51·1	?− 3·1	2	0·90	?	*	*
10. IRELAND, S.	Dublin	57	39	56·0	45·3	50·7	− 4·7	5	0·58	+0·03	36	41
	Parsonstown	60	34	57·4	40·4	48·9	− 8·0	5	0·55	−0·31	40	45
	Waterford	59	36	58·5	42·3	50·4	− 5·7	5	0·21	−0·70	*	*
	Roche's Point	60	42	57·9	46·6	52·3	− 4·1	4	0·25	−0·89	*	*
	Valencia	62	44	59·0	48·0	53·5	− 3·4	5	0·55	−0·65	37	42
	Foynes	59	44	56·9	46·3	51·6	− 5·0	5	0·86	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, SEPTEMBER 25, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	DISTRICTS	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	63	43	57	48	53	1 above.	4	5	3 less.	2	2
	2. ENGLAND, N.E.	65	41	58	50	54	1 above.	3	2	5 less.	10	12
	3. ENGLAND, E.	66	38	62	47	55	1 below.	2	5	2 less.	25	30
	4. MID. COUNTIES	68	39	61	47	54	0 (average).	3	5	2 less.	16	19
	5. ENGLAND, S.	68	41	62	49	56	1 below.	3	8	1 more.	24	28
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	62	38	58	48	53	0 (average).	3	11	1 less.	12	14
	7. ENGLAND, N.W.	65	37	59	50	55	0 (average).	2	2	9 less.	13	16
	8. ENGLAND, S.W.	66	38	60	50	55	1 below.	4	12	2 more.	18	22
	9. IRELAND, N.	65	38	58	47	53	1 below.	3	6	2 less.	20	24
	10. IRELAND, S.	64	40	59	47	53	2 below.	2	5	5 less.	23	28

General Remarks.

Weather has been for the most part cloudy or dull in all districts, although, except in the S. and S.W. of England and W. of Scotland, but little rain has fallen.

Temperature has been several degrees higher than during last week, but has continued slightly below the mean in most parts of the Kingdom. The maxima were generally registered on the last day of the period, and over southern and central England were as high as 68°. The minima, which were not nearly so low as those of last week, varied from 37° in "England, N.W." to 43° in "Scotland, E."

Rainfall has been a little more than the mean in the S. and S.W. of England, but in all other districts a deficit is reported.

Bright sunshine shows a very considerable decrease everywhere, the greatest percentage being 30 in "England, E.", and the least only 2 in "Scotland, E."

Depressions observed.—During the earlier part of this period the barometer was highest to the westward of our Islands, while two depressions travelled slowly in a westerly and south-westerly direction over the Netherlands, the Channel, and France. The wind consequently varied between N. and N.E., and blew freshly on our E. and S.E. coasts. By the 23rd, however, the conditions had changed, and an irregularly shaped anticyclone was shown over the N. of France and S. of England, while the wind had shifted to S.W. or S. generally. From this time until the close of the period the barometer, though falling, was comparatively high over France and our S.E. coasts and low in the W., where some small depressions appeared, with increasing southerly or south-easterly winds.

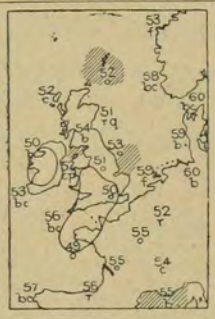
B 3723. 470.—9/82. Wt. 233. E. & S.

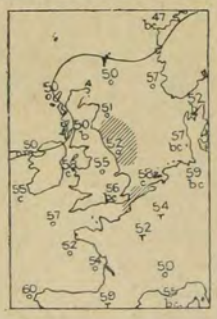
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending September 25, 1882.

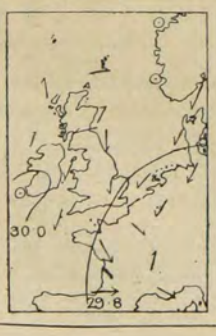
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, September 19.

Weather fine in Scandinavia, Denmark, and the W. of our Islands; cloudy elsewhere, with rain in the E. and S.E. of England. Rain extending to S. later.

Temperature risen in Scotland, fallen elsewhere; readings ranging from 56° at Scilly to 47° at Oxford. Maxima low generally.

Wind easterly Denmark, north-easterly or northerly in our Islands and France; moderate in force generally, but fresh or strong at a few exposed places. Slight freshening taking place during day.

Sea rather rough N.E. and N.W., moderate or smooth elsewhere.

Barometer falling except Scandinavia and N. Britain. Areas of high pressure lying over the Baltic and W. of Scotland, with one depression over the S.W. of France and another advancing towards our S.E. coasts from Germany.

Wednesday, September 20.

Weather fine on our N.W. coasts and in the N.E. of France; cloudy or overcast elsewhere, with rain at some southern stations. Sky clearing in S.E. of England later.

Temperature risen England and Ireland; ranging from 59° at Scilly and Cambridge to 49° at Stornoway. Maxima higher than on previous day, but still rather low for time of year.

Wind fresh or strong north-easterly in our Islands and on eastern shores of North Sea, but variable or south-westerly in France.

Sea rough on our N.E. coast and at Valencia, moderate or smooth elsewhere.

Barometer falling generally. Readings highest to the northward of Scotland, and two small depressions lying over the Channel and N. of France. Disturbances moving southward later and mercury rising at our southern stations.

Thursday, September 21.

Weather fine in Denmark and the S. of England, cloudy or dull elsewhere, with rain at Cambridge, Biarritz, and Paris. Sky clearing in N.W. later.

Temperature little changed; readings ranging from 58° at Holyhead, Dover, and Yarmouth to about 50° on our western and northern coasts. Highest maxima 65° at Prawle Point and 64° at Dover and Roches Point.

Wind north-easterly at all but southern French stations, where westerly. Moderate or fresh in force generally.

Sea rough east coast; slight or smooth elsewhere.

Barometer rising England, falling elsewhere. Area of high readings over north of Scotland, and depressions of previous day passing away over southern France.

Friday, September 22.

Weather fine and bright over England, cloudy elsewhere. Little change later.

Temperature fallen a little except Scotland; readings ranging from 58° at Yarmouth to 46° at York. Subsequently rising to 65° at York, Loughborough, and Oxford, and to 64° in London.

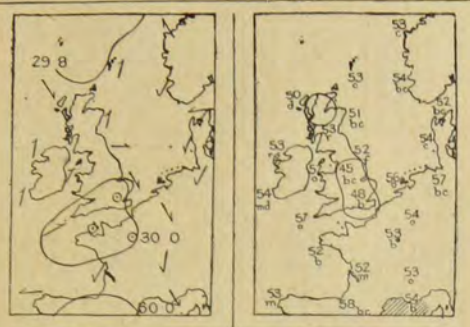
Wind south-westerly on our N. and N.W. coasts, still north-easterly elsewhere; light or moderate in force generally.

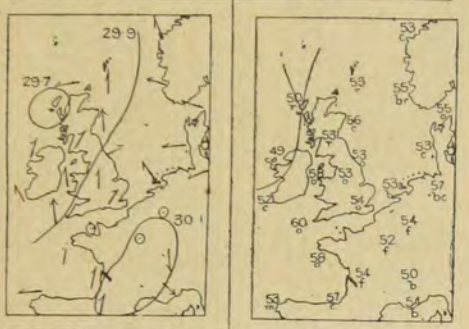
Sea slight or smooth on all our coasts.

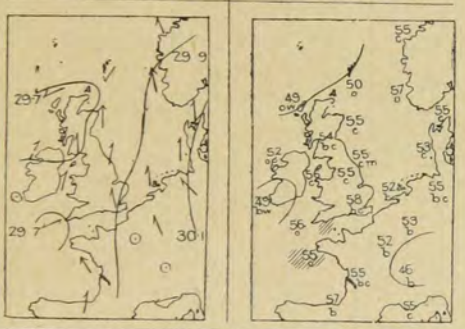
Barometer falling in Scandinavia and the N. of our Islands, rising at all southern stations. Areas of relatively high pressures now found over the Gulf of Bothnia and S. of Ireland, with low readings to the northward of Scotland and over central Europe.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 23.

Weather fine in France and the E. and S.E. of England, cloudy elsewhere, with rain in the western parts of Scotland and Ireland.

Temperature fallen slightly most places; readings ranging from 57° at Holyhead, Pembroke, and Scilly to 45° at York. Highest maxima 65° at Cambridge, and 63° at Loughborough, Hurst Castle, and Oxford.

Wind still north-easterly or northerly over the S. of Norway, Denmark, the S. of England, and France, but south-westerly at all the more western and northern stations. Light or moderate in force generally.

Sea slight or smooth.

Barometer rising except Ireland and Scotland, where slight fall taking place. Pressure, comparatively uniform, highest readings found over Gulf of Bothnia and N. of France, lowest to northward of Scotland. No important change later.

Sunday, September 24.

Weather cloudy or dull generally, with rain in the west of Scotland, and fog at some French station. Rain commencing in south-west of England later.

Temperature fallen slightly Ireland, risen elsewhere; readings ranging from 60° at Scilly, to 49° at Mullaghmore and Parsonstown. Highest maxima 65° at Cambridge, and 64° in London.

Wind light or moderate from the southward and south-westward. Strong southerly breeze setting in at Scilly later.

Sea moderate or smooth.

Barometer falling slowly at British, but rising at Continental stations. Areas of high pressure over Sweden and France, and two small depressions shown: one over the west of Scotland, and the other near Cork.

Monday, September 25.

Weather fine in the south of Ireland, the south-east of England, and at most of the continental stations; cloudy elsewhere. Heavy rain falling in south-west of England later.

Temperature fallen W., risen E.; ranging from 59° at Hurst Castle to 44° at Parsonstown. Highest maxima 68° in London and 66° at Loughborough.

Wind generally southerly, light or moderate in force. Shifting to north-west at south-western stations later.

Sea rather rough at Prawle Point, slight or smooth elsewhere.

Barometer falling generally. Readings highest over Baltic, with large depression over Scotland, and smaller one at mouth of Channel. Former disturbance moving northward, and latter southward later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds: o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	56	43	54·1	46·4	50·3	−0·1	4	0·61	+0·11	•	•
	Stornoway	55	42	53·6	45·4	49·5	−0·9	4	0·51	−0·59	14	17
	Wick	61	44	56·3	47·0	51·7	+1·0	6	0·78	+0·08	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	62	48	60·0	53·7	56·9	−1·0	4	0·14	−0·96	•	•
	Jersey (Noirmont)	63	49	61·1	52·7	56·9	−2·0	3	0·51	−0·21	43	51

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	61	43	55·4	48·4	51·9	+ 0·3	6	1·16	+0·46	*	*
	Aberdeen	60	43	57·4	48·1	52·8	+ 1·3	3	0·08	−0·75	2	2
	Leith	63	45	58·3	48·6	53·5	+ 0·8	4	0·22	−0·39	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	47	56·6	49·4	53·0	+ 0·8	4	0·31	?	*	*
	Shields	62	46	57·6	48·6	53·1	+ 0·4	3	0·25	−0·40	*	*
	Durham	64	42	58·0	47·2	52·6	− 0·4	4	0·68	+0·07	9	11
	Scarborough ⚓	63	49	59·3	52·0	55·7	+ 2·3	2	0·02	−0·71	*	*
	York	65	41	60·7	47·1	53·9	− 0·2	4	0·08	−0·62	10	12
	Spurn Head	62	49	59·4	52·7	56·1	+ 2·1	0	—	?	*	*
3. ENGLAND, E.	Hillington ⚓	66	39	62·6	45·2	53·9	− 0·6	2	0·55	−0·05	27	32
	Yarmouth	64	49	61·1	52·3	56·7	+ 1·0	1	0·39	−0·36	*	*
	Geldeston	65	43	61·7	48·3	55·0	− 0·9	2	0·27	−0·29	24	29
	Cambridge	65	38	63·1	44·3	53·7	− 2·8	3	0·56	+0·01	24	29
	Rothamsted	65	?44	60·7	?46·4	?53·6	?− 2·0	4	0·66	−0·04	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	66	41	62·0	45·6	53·8	− 1·1	3	0·15	−0·46	*	*
	Loughborough	66	41	61·9	47·1	54·5	− 0·2	2	0·65	−0·08	*	*
	Leicester	68	42	62·2	49·1	55·7	+ 1·1	3	1·05	+0·40	17	20
	Birmingham (Oscott)										*	*
	Cheadle ⚓	62	41	59·2	47·6	53·4	0·0	2	0·13	?	*	*
	Churchstoke ⚓	62	39	58·3	47·0	52·7	− 1·5	5	0·18	?	12	14
	Hereford ⚓	64	42	60·8	47·9	54·4	− 0·5	4	0·65	−0·16	*	*
	Cirencester	63	44	60·1	47·6	53·9	− 1·2	2	0·82	−0·07	12	14
	Oxford	65	43	62·3	48·0	55·2	− 0·1	3	0·58	−0·12	23	27
5. ENGLAND, S.	London†	68	41	62·4	47·4	54·9	− 2·0	3	0·69	+0·04	17	20
	Marlborough ⚓	64	43	60·1	48·3	54·2	− 0·3	2	1·13	+0·20	19	23
	Strathfield Turgiss ⚓	66	41	63·1	43·5	53·3	− 2·8	1	1·08	+0·38	*	*
	Dover	64	49	61·0	52·1	56·6	+ 0·1	4	0·81	+0·11	*	*
	Hastings (St. Leonard's)	66	49	63·1	51·8	57·5	+ 1·1	3	1·04	+0·33	26	31
	Southampton	67	47	63·7	49·9	56·8	+ 1·0	2	0·39	?	33	39
	Hurst Castle	64	46	61·7	49·4	55·6	− 0·7	2	0·46	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	60	42	56·5	46·6	51·6	− 1·0	4	1·67	?	*	*
	Glasgow	60	41	56·8	47·7	52·3	− 0·2	3	1·33	+0·22	8	10
	Ardrossan	60	43	57·4	48·9	53·2	+ 0·9	4	1·16	+0·11	*	*
	Silloth (Cumberland)	62	38	59·4	49·2	54·3	+ 0·1	2	0·17	−0·78	5	6
	Douglas (Isle of Man)	60	43	58·3	48·5	53·4	+ 0·5	4	1·00	+0·20	23	27
7. ENGLAND, N.W.	Barrow-in-Furness	65	44	60·0	51·1	55·6	+ 1·4	1	0·17	?	*	*
	Stonyhurst	60	45	58·7	48·8	53·8	+ 0·2	1	0·02	−1·38	11	13
	Blackpool ⚓	62	37	59·8	48·8	54·3	− 0·3	1	0·07	−0·93	*	*
	Manchester	63	40	58·5	48·4	53·5	− 1·0	2	0·13	−0·91	*	*
	Liverpool Obsy (Bidston)	62	45	58·7	50·0	54·4	− 1·1	2	0·19	−0·89	*	*
	Llandudno ⚓	61	43	58·1	51·5	54·8	− 1·5	3	0·31	−0·64	10	12
	Holyhead	61	49	59·1	53·3	56·2	+ 0·1	3	0·58	−0·31	*	*
8. ENGLAND, S.W.	Pembroke	61	46	58·6	52·1	55·4	+ 1·0	3	1·04	+0·02	12	14
	Arlington (N. Devon)	60	44	58·7	47·7	53·2	− 1·8	5	0·77	?	*	*
	Cullompton ⚓	62	38	59·6	46·2	52·9	− 3·3	5	1·34	?	15	19
	Falmouth	63	47	60·6	52·6	56·6	− 0·4	4	0·76	−0·01	20	24
	Plymouth	64	45	62·2	49·4	55·8	− 1·5	3	1·24	+0·16	26	31
	Prawle Point	66	45	62·0	48·3	55·2	+ 0·2	4	2·07	?	*	*
9. IRELAND, N.	Londonderry	65	38	60·5	44·2	52·4	− 0·6	3	0·29	−0·63	*	*
	Mullaghmore	61	45	58·6	47·7	53·2	− 0·7	3	0·53	?	*	*
	Markree Castle	63	39	58·7	44·4	51·6	− 2·5	3	0·38	−0·42	21	25
	Brookeborough	62	39	58·2	45·9	52·1	−1·6	1	0·28	?	*	*
	Armagh	58	42	56·5	48·0	52·3	− 1·4	5	0·65	−0·23	19	23
	Donaghadee	59	46	57·1	49·6	53·4	+ 0·2	4	1·71	?	*	*
10. IRELAND, S.	Dublin	60	42	57·6	50·0	53·8	− 0·3	3	1·08	+0·50	16	19
	Parsonstown	63	42	59·1	46·0	52·6	− 2·4	2	0·36	−0·52	21	25
	Waterford	61	42	58·6	47·0	52·8	− 2·2	3	0·65	−0·31	*	*
	Roche's Point	64	43	62·0	47·7	54·9	− 0·3	1	0·26	−0·92	*	*
	Valencia	64	40	60·3	47·1	53·7	− 2·1	3	0·33	−0·97	33	39
	Foynes	62	40	58·4	46·1	52·3	− 2·7	2	0·20	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, OCTOBER 2, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	69	34	60	43	52	1 above.	5	5	2 less.	28	35
	2. ENGLAND, N.E.	69	37	60	47	53	2 above.	6	5	2 less.	25	32
	3. ENGLAND, E.	70	35	62	47	54	0 (average).	6	8	2 more.	36	44
	4. MID. COUNTIES	70	38	61	45	53	0 (average).	6	10	2 more.	25	31
	5. ENGLAND, S.	69	40	62	49	55	1 above.	6	12	3 more.	27	34
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	70	36	59	46	52	1 above.	6	8	2 less.	21	26
	7. ENGLAND, N.W.	71	40	61	48	54	1 above.	6	10	1 less.	27	33
	8. ENGLAND, S.W.	66	39	60	49	54	0 (average).	6	17	11 more.	21	26
	9. IRELAND, N.	65	32	57	42	50	2 below.	6	14	8 more.	18	22
	10. IRELAND, S.	65	35	58	44	51	2 below.	6	9	0 (average).	23	29

General Remarks.

Weather during the past week was very unsettled generally, and at the close of the period it became exceedingly stormy in Ireland and Scotland. On the evening of the 2nd October, bright aurora was seen in all parts of the Kingdom.

Temperature was a little above the mean in Scotland and in the N.E., S., and N.W. of England, but below it in Ireland. On the evening and night of the 30th September the thermometer rose very rapidly, and the maximum readings of the 1st October varied between 65° and 71°. The minima which occurred on the 29th or 30th September were below 40° in most districts, and in some parts of "England, E." and "Ireland, S." the thermometer fell to 35°, in "Scotland, E." to 34°, and in "Ireland, N." to 32°.

Rainfall was considerably more than the mean in "England, S.W." and "Ireland, N.", and a little more in "England, E.", the "Midland Counties", and "England, S.", but in all other districts it was less than the normal.

Bright sunshine varied from 22 per cent. of the possible amount in "Ireland, N." to 44 per cent. in "England, E."

Depressions observed.—On the 26th and 27th September a somewhat shallow depression passed slowly across our Islands from the southward, reaching the N. of Scotland by the morning of the 28th. On the night of the 28th a deeper disturbance advanced over the S. of England from the south-westward, and on the 30th another travelled quickly in a north-north-easterly direction along our W. and N. coasts. All these, however, were of slight importance in comparison to a depression which made its appearance on the morning of the 1st October. This, which proved to be very deep, travelled in a direction similar to that of the 30th September, and occasioned severe southerly gales in Ireland and Scotland. On the night of the 2nd, the barometer was rising generally, and the weather seemed rather more settled.

R 3790. 470.—10/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 2, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, September 26.

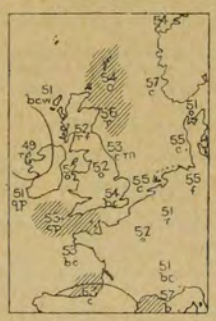
Weather fine in Sweden, the S.E. of England and S. of Ireland, cloudy elsewhere, with rain in the S.W. Some improvement in S.W. later.

Temperature changed irregularly; ranging from 58° at Yarmouth to 40° at Parsonstown. Subsequently rising to 66° at Loughborough and 65° at Barrow-in-Furness, Cambridge, and in London.

Wind south-easterly in Denmark and Norway, and southerly in Scotland, but showing cyclonic circulation over France and the S. of England. Light or moderate in force generally.

Sea rather rough at Prawle Point, moderate to smooth elsewhere.

Barometer falling generally, most in N.W. of France. Readings highest over Sweden, and small depression lying over mouth of the Channel. Depression subsequently growing larger, and moving northwards.



Wednesday, September 27.

Weather cloudy generally, with rain at all our northern stations. Sky subsequently clearing in S., but rain continuing all day in N.W.

Temperature fallen over England, risen elsewhere; readings ranging from 56° at Aberdeen to 48° at Parsonstown. Highest maximum 63° at Loughborough and Cambridge.

Wind north-westerly in W., westerly in S., southerly in S.E., and south-easterly over Scotland and the North Sea. Strong in E. of Scotland and blowing a gale in Bay of Biscay, moderate elsewhere.

Sea rough off the S.W. of England and N.E. of Scotland.

Barometer rising over France and our S.W. coasts, falling elsewhere. Depression of previous day now covering whole of Great Britain. Increase of pressure extending to all southern stations later and disturbance continuing to move northwards.

Thursday, September 28.

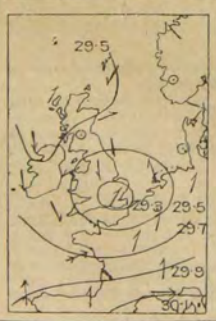
Weather finer than on previous day except in the south-west of England and north-west of France, where again dull and rainy. Rain extending to most southern stations later.

Temperature fallen generally; readings ranging from 53° at Sumburgh Head and Pembroke to 42° at Parsonstown. Maxima low generally.

Wind westerly or south-westerly on our own and the French coasts, but easterly or south-easterly in Scandinavia; light to fresh in force. Subsequently backing to S. and S.E. in S.W., and increasing to strong breeze.

Sea rough in the Channel and at Sumburgh Head and Mullaghmore.

Barometer rising generally, and depression of previous day passing away northwards. Subsequently falling briskly in south-west, and new disturbance advancing over southern England.



Friday, September 29.

Weather fine in the N.E. of Scotland and S. of Ireland, cloudy or overcast elsewhere, with heavy rain in the E. of England and N. of France. Rain ceasing later.

Temperature fallen N., risen S.; readings ranging from 59° at Dover to 38° at Aberdeen. Maxima low generally; highest point reached in London only 57°.

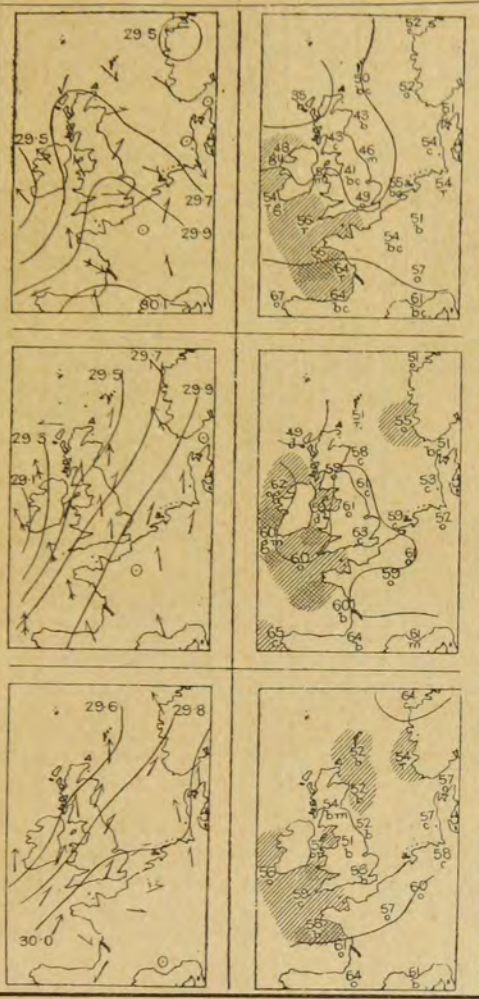
Wind variable in N., north-westerly in W. and S.W., south-westerly in S.E., and easterly on our E. coasts. Strong to a gale over the Channel and Bay of Biscay.

Sea high in the Bay of Biscay, rough on our S. coasts.

Barometer risen Scotland, fallen elsewhere—quickly in S.E. of England. Rather deep depression shown near London, but disturbance moving away later, and mercury rising generally.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 30.

Weather fine in Scotland and the E. of England, cloudy or overcast elsewhere, with rain on our S.W. coasts. Rain falling generally later.

Temperature rather low at first, but rising quickly in course of afternoon and evening. Morning readings varying between 56° in the S.W. of England and 35° in the Hebrides. Maxima occurring late in evening.

Wind light westerly in E., but backing to S. or S.E. in W., and blowing strongly in the S.W. Slight gales in W. subsequently.

Sea rough in the Bay of Biscay and off our S.W. coasts.

Barometer rising in E. and N., but falling briskly in S.W., and rather deep depression advancing towards the S. of Ireland. Disturbance moving northward later, and occasioning fall of barometer at all but the extreme south-eastern stations.

Sunday, October 1.

Weather fair in E., cloudy in W. and N., with rain in some places. Slight rain subsequently falling generally, and lightning occurring in London.

Temperature risen rapidly—as much as 24° at Leith. Readings ranging from 65° at Leith and 63° in London to 49° in the Hebrides. Maximum as high as 70° at Cambridge and 69° at Leith, York, and in London.

Wind generally southerly; moderate in E. but strong to a gale in W. Subsequently blowing a severe gale in Ireland and the W. of Scotland, and strongly even in the S.E. of England.

Sea high in the W., rough in the S.W.

Barometer rising over Scandinavia and Denmark, falling our Islands—quickly in W. Deep depression travelling quickly along the W. of Ireland and Scotland in course of day, and barometer subsequently rising in S.W.

Monday, October 2.

Weather fine except in Wales and the S.W. of England, where cloudy and showery.

Temperature fallen several degrees; readings ranging from 59° at Scilly to 51° at Nairn, York, and Cambridge. Highest maxima 67° in London and 66° at Loughborough and Cambridge.

Wind generally southerly or south-westerly, light in the E., fresh or strong in W. and N. Subsequently blowing slight gale in Ireland and Scotland.

Sea very rough in the Bay of Biscay and off our W. coasts, rather rough in the N.E.

Barometer rising generally and depression of previous day entirely disappeared. New, but shallower, disturbance advancing over W. coasts later, and barometer falling somewhat in Ireland and Scotland.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	60	43	56·6	47·9	52·3	+3·1	6	0·62	+0·08	*	*
	Stornoway	61	33	55·1	41·0	48·1	−0·8	7	1·07	−0·03	19	24
	Wick	63	33	59·0	43·4	51·2	+2·0	2	0·15	−0·53	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	50	59·1	52·1	55·6	−1·3	7	1·40	+0·29	*	*
	Jersey (Noirmont)	68	49	61·4	52·0	56·7	−0·7	7	1·98	+1·21	33	41

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	68	37	58·3	42·7	50·5	+ 0·5	4	0·84	+0·17	*	*
	Aberdeen	64	34	59·7	44·0	51·9	+ 2·1	5	0·36	−0·46	28	35
	Leith	69	36	61·0	42·9	52·0	+ 1·0	6	0·42	−0·15	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	38	58·9	45·0	52·0	+ 1·4	5	0·19	?	*	*
	Shields	67	41	59·3	46·1	52·7	+ 1·5	5	0·58	−0·05	*	*
	Durham	68	37	60·3	43·4	51·9	+ 0·6	5	0·40	−0·24	26	33
	Scarborough ℔	67	44	59·1	48·8	54·0	+ 2·3	6	0·51	−0·21	*	*
	York	69	39	62·3	45·1	53·7	+ 1·3	6	0·51	−0·20	24	30
	Spurn Head	66	47	59·3	50·4	54·9	+ 2·5	6	0·88	?	*	*
3. ENGLAND, E.	Hillington ℔	70	35	61·8	45·5	53·7	+ 0·9	6	0·82	+0·24	31	38
	Yarmouth	65	42	60·1	48·7	54·4	+ 0·4	7	0·68	−0·07	*	*
	Geldeston	68	41	61·6	48·7	55·2	+ 1·0	7	0·77	+0·23	39	48
	Cambridge	70	41	63·3	43·7	53·5	− 0·9	?4	?0·87	+0·32	37	46
	Rothamsted	66	41	61·2	46·3	53·8	+ 0·2	7	0·86	+0·16	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	39	63·0	42·7	52·9	− 0·2	7	0·78	+0·15	*	*
	Loughborough	67	40	62·9	45·7	54·3	+ 1·5	5	0·84	+0·10	*	*
	Leicester	67	42	62·2	45·8	54·0	+ 1·3	6	0·86	+0·21	26	32
	Birmingham (Oscott)	65	41	60·7	46·3	53·5	+ 1·2	7	0·98	+0·18	*	*
	Cheadle ℔	64	41	58·8	44·8	51·8	+ 0·2	6	1·40	?	*	*
	Churchstoke ℔	65	39	60·3	44·4	52·4	0·0	6	1·08	?	27	33
	Hereford ℔	?65	41	?61·7	45·0	?53·4	+ 0·2	6	1·24	+0·43	*	*
	Cirencester	67	38	60·1	43·9	52·0	− 1·4	6	0·93	+0·08	23	28
	Oxford	67	44	61·7	47·1	54·4	+ 0·8	5	0·64	−0·06	24	30
5. ENGLAND, S.	London†	69	43	63·4	47·7	55·6	+ 0·8	5	1·15	+0·49	24	30
	Marlborough ℔	66	40	60·1	46·3	53·2	+ 0·3	6	0·96	+0·03	26	32
	Strathfield Turgiss ℔	69	41	62·2	46·6	54·4	+ 0·1	7	1·21	+0·51	*	*
	Dover	65	46	61·7	51·1	56·4	+ 1·7	6	?	?	*	*
	Hastings (St. Leonard's)	65	44	61·3	51·2	56·3	+ 1·7	6	0·91	+0·16	31	38
	Southampton	69	43	62·2	48·7	55·5	+ 1·2	5	1·31	?	28	35
	Hurst Castle	66	47	61·4	50·9	56·2	+ 1·4	6	1·50	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	63	36	56·6	44·1	50·4	− 0·8	7	3·34	?	*	*
	Glasgow	66	36	57·7	46·3	52·0	+ 1·3	5	0·80	−0·28	16	20
	Ardrossan	61	39	57·9	45·9	51·9	+ 1·0	7	0·28	−0·76	*	*
	Silloth (Cumberland)	70	38	62·6	47·3	55·0	+ 2·6	5	0·60	−0·35	24	30
	Douglas (Isle of Man)	63	38	58·6	46·9	52·8	+ 0·9	7	1·32	+0·50	22	27
7. ENGLAND, N.W.	Barrow-in-Furness	65	45	61·4	49·0	55·2	+ 2·4	6	1·00	?	*	*
	Stonyhurst	65	40	59·1	46·1	52·6	+ 0·7	7	1·44	+0·02	28	35
	Blackpool ℔	66	41	61·1	46·3	53·7	+ 0·5	7	1·13	+0·07	30	37
	Manchester	66	41	59·9	45·6	52·8	+ 0·1	7	1·24	+0·19	*	*
	Liverpool Obsy (Bidston)	68	46	60·9	47·4	54·2	+ 0·1	6	1·24	+0·16	*	*
	Llandudno ℔	71	44	61·6	48·7	55·2	+ 0·6	6	0·52	−0·45	22	28
	Holyhead	65	45	59·6	49·9	54·8	+ 0·2	6	0·68	−0·28	*	*
8. ENGLAND, S.W.	Pembroke	63	49	59·0	50·3	54·7	+ 0·8	7	1·66	+0·64	23	28
	Arlington (N. Devon)	66	42	59·6	46·7	53·2	− 0·3	6	1·49	?	*	*
	Cullompton ℔	64	39	60·8	45·2	53·0	− 1·5	6	1·33	?	24	30
	Falmouth	63	48	59·3	50·2	54·8	− 0·9	7	2·33	+1·51	24	30
	Plymouth	65	45	60·5	49·7	55·1	− 0·6	6	2·24	+1·20	13	16
	Prawle Point	64	46	59·6	50·6	55·1	+ 1·0	6	1·21	?	*	*
9. IRELAND, N.	Londonderry	62	35	57·1	39·6	48·4	− 3·0	7	2·50	+1·53	*	*
	Mullaghmore	66	39	57·4	44·6	51·0	− 1·1	6	1·56	?	*	*
	Markree Castle	60	32	57·5	39·5	48·5	− 3·7	6	0·89	+0·05	19	23
	Brookeborough	67	33	56·0	40·5	48·3	− 3·3	5	1·34	?	*	*
	Armagh	65	38	55·9	44·1	50·0	− 1·8	6	1·65	+0·86	17	21
	Donaghadee	62	39	59·0	45·3	52·2	0·0	6	0·56	?	*	*
10. IRELAND, S.	Dublin	65	40	58·4	45·6	52·0	− 0·6	5	0·83	+0·22	24	30
	Parsonstown	65	37	59·3	40·1	49·7	− 3·2	4	0·53	−0·33	22	27
	Waterford	61	35	57·4	43·2	50·3	− 3·4	7	1·36	+0·38	*	*
	Roche's Point	61	40	59·3	46·1	52·7	− 1·3	6	1·15	−0·02	*	*
	Valencia	62	42	59·0	45·3	52·2	− 2·5	7	0·92	−0·46	24	30
	Foynes	60	40	56·5	44·2	50·4	− 2·8	6	0·83	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, OCTOBER 9, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. †Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	64	41	53	48	53	4 above.	6	5	2 less.	9	12
	2. ENGLAND, N.E.	70	39	58	50	54	3 above.	4	5	1 less.	17	22
	3. ENGLAND, E.	66	39	61	47	54	1 above.	5	2	4 less.	25	33
	4. MID. COUNTIES	66	39	59	47	53	1 above.	4	2	6 less.	21	27
	5. ENGLAND, S.	67	39	61	49	55	2 above.	4	3	5 less.	26	33
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	61	37	57	49	53	3 above.	3	4	6 less.	16	20
	7. ENGLAND, N.W.	66	38	58	50	54	2 above.	2	1	11 less.	24	30
	8. ENGLAND, S.W.	63	41	59	49	54	0 (average).	3	2	7 less.	27	35
	9. IRELAND, N.	64	41	58	48	53	2 above.	3	1	8 less.	5	20
	10. IRELAND, S.	65	39	59	48	53	1 above.	3	3	7 less.	20	26

General Remarks.

Weather was fine generally on the 3rd, but was afterwards exceedingly cloudy in all but the eastern and southern districts. Aurora was seen in many parts of the country on the evening of the 5th, and thunderstorms or lightning occurred in "England, E." and "England, S." on the evenings of the 7th and 8th.

Temperature was above the mean in all districts excepting "England, S.W.", the excess being greatest in Scotland. The maxima, which varied between 61° in "Scotland, W." and 70° in "England, N.E." occurred generally over the northern and midland districts about the middle of the week, but in the eastern and southern districts the highest readings were registered mostly on the 9th. The minima varying between 37° and 41° occurred on various days in different localities.

Rainfall was less than the mean in all districts, the deficit being greatest in "England, N.W." and Ireland.

Bright sunshine was very deficient in most districts, the percentage of possible amount varying from 12 in "Scotland, E." to 35 in "England, S.W."

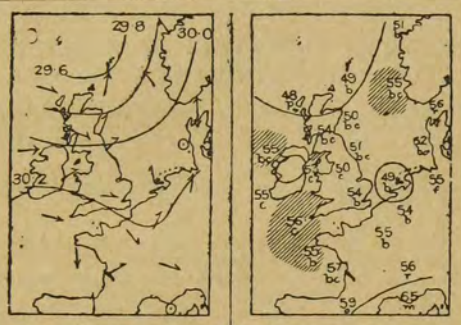
Depressions observed.—At the commencement of the period a depression was passing away to the northward of Scotland and the winds were generally westerly. Shortly afterwards an anticyclone spread over our northern districts from the south-westward of Ireland, and the wind veered first to N. and then to N.E. and E., from which quarters it freshened considerably on the 6th and 7th. On the 8th, the high pressure travelled eastwards to Sweden, and, after a brief period of very uniform readings, gradients for southerly winds were being gradually formed at the close of the week. There has been no gale of any importance.

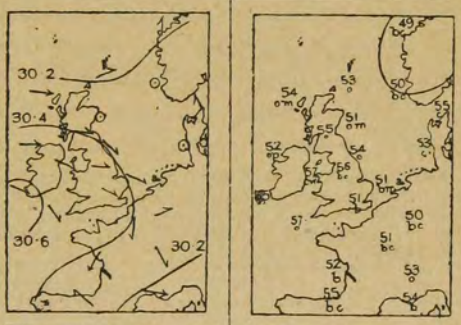
R 3888. 470.—10/82. Wt. 233. E. & S.

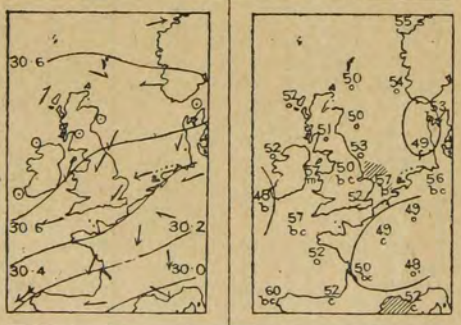
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 9, 1882.

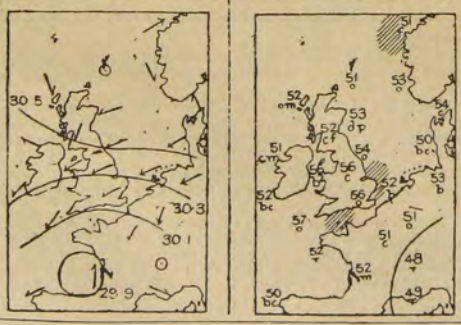
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 3.

Weather dull in Sweden, but fair in most other parts of western Europe. Subsequently becoming cloudy at all our western and northern stations, with slight rain in some places.

Temperature fallen generally; readings ranging from 56° at Scilly to 45° at Aberdeen. Highest maxima 66° at Cambridge and 64° in London.

Wind westerly or south-westerly over our Islands, but southerly or south-easterly in Scandinavia; fresh or strong in force at some exposed stations. Subsequently veering to N.W. in S. of England.

Sea rather rough in the W., moderate or smooth elsewhere.

Barometer rising generally. Relatively high readings over Sweden and the S. of France, and rather deep depression lying to northward of Scotland. Rise of mercury continuing all day.

Wednesday, October 4.

Weather fine in France and the S.E. of England; cloudy or overcast elsewhere, with mist at several northern stations and rain at Leith.

Temperature risen in the N., fallen slightly in the S.; readings ranging from 57° at Scilly to 49° at Oxford. Maxima rather low generally, highest 64° at Aberdeen.

Wind westerly in Scotland and south-westerly in Scandinavia, but north-westerly or northerly elsewhere; light or moderate in force generally.

Sea moderate or smooth on all our coasts.

Barometer still rising, and anticyclone, with readings above 30·6 ins. appearing over S. of Ireland. Relatively low pressures lying off N.W. of Norway and S.E. of France. Anticyclone subsequently spreading northwards.

Thursday, October 5.

Weather still fair in France and the S. and E. of England, cloudy or overcast elsewhere, with mist in many places. Aurora seen in various parts of the country in evening.

Temperature fallen slightly most places, and ranging from 57° at Holyhead, Scilly, and Yarmouth to 49° at Cambridge. Maxima rather low generally.

Wind westerly or south-westerly in the northern parts of Scotland and Scandinavia, but north-easterly in England, Ireland, and France. Fresh or strong in force at some south-eastern stations.

Sea rather rough at Yarmouth, slight or smooth elsewhere.

Barometer rising at all but our southern and the French stations, where falling somewhat. Long band of high readings (exceeding 30·6 ins.) extending from W. of Ireland to S. of Sweden, with relatively low pressures over N. of Scandinavia and S.E. of France.

Friday, October 6.

Weather fine in the N.W. of England and also on our S.E. coasts, cloudy or overcast elsewhere, with mist or fog in the N. and N.W. Slight rain falling in S.E. later.

Temperature rising E. and S., little changed elsewhere; readings ranging from 57° at Scilly to 50° at Parsonstown. Highest maxima 63° at Roche's Point and Dover, and 62° over central England.

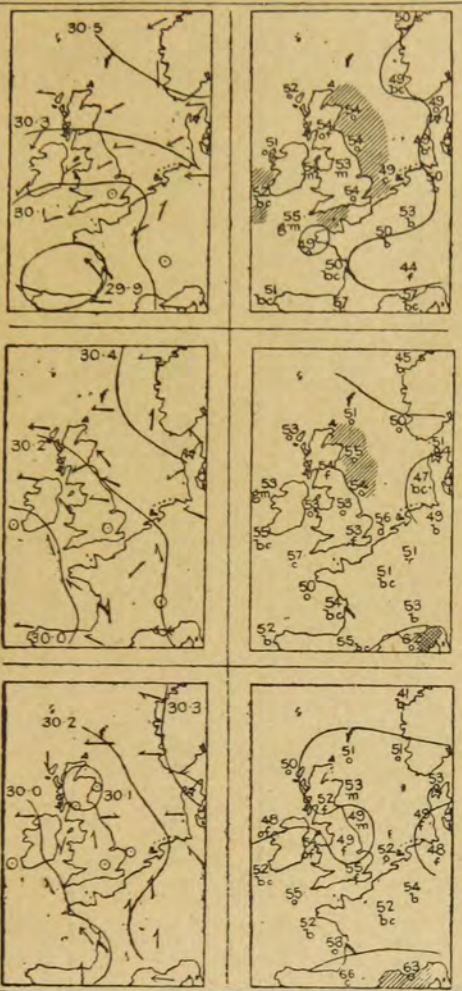
Wind westerly in the N. of Scandinavia, easterly or north-easterly over our Islands and France. Fresh or strong in force in many places.

Sea rather rough in the S. and S.E.

Barometer rising N. of Scandinavia, falling elsewhere—most in the S. High pressure area extending from N. of Scotland to S. of Sweden, and lowest readings found over Bay of Biscay. Little change later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, October 7.

Weather fine in Sweden, the S.E. of England, and some parts of France; overcast elsewhere, with mist or fog at many western stations. Lightning seen in S.E. of England in evening.

Temperature falling except in W.; readings ranging from 56° at Spurn Head and Yarmouth to 51° at Mullaghmore. Highest maximum 67° in London.

Wind north-westerly in Sweden, easterly or north-easterly our Islands, south-easterly in Bay of Biscay. Fresh or strong in force at some northern stations, light or moderate elsewhere. South-easterly winds subsequently extending to S. of England.

Sea rather rough on our eastern and some parts of our western coasts.

Barometer rising N. of Scandinavia and E. of France; falling elsewhere. Readings highest (above 30·55 ins.) Norway and Sweden, lowest (below 29·90 ins.) Bay of Biscay. No important change later.

Sunday, October 8.

Weather fine at most Continental stations; cloudy in our Islands, with fog over central England and mist in many parts of Ireland and Scotland. Lightning seen in midland and southern districts in evening.

Temperature changed irregularly; readings ranging from 57° at Scilly to 47° at Loughborough. Subsequently rising to 64° at Cambridge and 66° in London.

Wind fresh easterly in N., light south-easterly or southerly in S.

Sea rough on our N.E. coast, moderate or slight elsewhere.

Barometer rising a little at the French and our southern stations, falling elsewhere. Highest pressures now over Baltic, and lowest off our S.W. coasts, but intervening gradients much less steep than of late.

Monday, October 9.

Weather fine in the S.E. of England and N.E. of France, cloudy elsewhere, with fog or mist at many stations and rain in the N. of Scotland.

Temperature fallen a little except in the S.E.; readings ranging from 59° at Hurst Castle to 42° at Loughborough. Highest maxima 67° in London and 64° at Cambridge.

Wind easterly in S. Norway and light south-easterly in the S.W. of England and W. of France, but calms or variable airs reported in the E. and N.

Sea moderate or smooth on all our coasts.

Barometer rising over England, Ireland, and France, falling elsewhere. Readings still highest Sweden and lowest off our south-west coasts, but pressure becoming exceedingly uniform.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	55	45	53·6	48·0	50·8	+2·4	5	0·40	−0·17	*	*
	Stornoway	59	42	55·6	47·0	51·3	+3·3	3	0·18	−0·93	10	13
	Wick	61	41	55·9	46·3	51·1	+2·8	4	0·73	+0·05	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	51	58·7	53·4	56·1	−0·1	3	0·03	−1·09	*	*
	Jersey (Noirmont)	61	50	59·9	52·1	56·0	−0·5	3	0·40	−0·39	28	36

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	62	44	56·6	48·4	52·5	+ 3·5	4	0·08	−0·52	*	*
	Aberdeen	64	45	58·1	48·9	53·5	+ 4·8	6	0·59	−0·21	9	12
	Leith	61	41	57·9	46·4	52·2	+ 2·6	7	0·79	+0·27	*	*
2. ENGLAND, N.E.	Alnwick Castle	60	41	56·4	49·0	52·7	+ 3·2	4	0·61	?	*	*
	Shields	60	44	56·9	49·1	53·0	+ 2·8	4	0·43	−0·17	*	*
	Durham	70	39	58·8	48·4	53·6	+ 3·5	7	0·92	+0·25	15	19
	Scarborough ℳ	61	48	57·3	51·0	54·2	+ 3·6	4	0·53	−0·17	*	*
	York	62	46	59·1	48·4	53·8	+ 2·5	3	0·22	−0·47	19	24
	Spurn Head	61	48	58·0	51·4	54·7	+ 3·4	2	0·07	?	*	*
3. ENGLAND, E.	Hillington ℳ	62	39	60·4	46·3	53·4	+ 1·7	4	0·34	−0·21	22	29
	Yarmouth	61	45	58·6	50·7	54·7	+ 1·8	2	0·03	−0·69	*	*
	Geldeston	66	40	60·7	47·0	53·9	+ 0·8	4	0·15	−0·40	28	36
	Cambridge	66	43	62·7	46·0	54·4	+ 1·3	4	0·36	−0·17	26	33
	Rothamsted	65	41	60·3	45·4	52·9	+ 0·6	6	0·22	−0·48	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	66	45	60·4	47·6	54·0	+ 2·1	2	0·11	−0·53	*	*
	Loughborough	63	41	60·6	47·9	54·3	+ 2·5	1	0·02	−0·70	*	*
	Leicester	64	39	61·4	47·3	54·4	+ 3·0	5	0·14	−0·49	20	26
	Birmingham (Oscott)	63	40	59·1	46·3	52·7	+ 1·6	6	0·10	−0·69	*	*
	Cheadle ℳ	60	40	56·7	45·6	51·2	+ 0·8	4	0·12	?	*	*
	Churchstoke ℳ	60	39	57·1	45·8	51·5	+ 0·2	5	0·16	?	19	24
	Hereford ℳ	62	43	58·5	46·6	52·6	+ 0·6	3	0·10	−0·70	*	*
	Cirencester	61	41	58·9	45·9	52·4	+ 0·2	2	0·22	−0·60	20	26
	Oxford	62	44	60·6	47·6	54·1	+ 1·7	4	0·51	−0·18	24	31
5. ENGLAND, S.	London†	67	41	63·0	47·9	55·5	+ 1·9	3	0·12	−0·54	22	29
	Marlborough ℳ	61	42	59·4	46·7	53·1	+ 1·3	4	0·50	−0·41	19	24
	Strathfield Turgiss ℳ	65	39	61·3	45·2	53·3	+ 0·2	2	0·26	−0·42	*	*
	Dover	63	49	60·3	52·3	56·3	+ 2·7	3	0·11	−0·62	*	*
	Hastings (St. Leonard's)	64	48	61·8	51·5	56·7	+ 3·2	5	0·35	−0·42	37	47
	Southampton	64	46	60·9	48·9	54·9	+ 1·2	5	0·32	?	24	31
	Hurst Castle	62	46	60·0	49·9	55·0	+ 1·1	5	0·75	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	61	47	57·4	48 8	53·1	+ 2·8	5	0·50	?	*	*
	Glasgow	58	44	56·1	49·0	52·6	+ 3·0	4	0·38	−0·66	6	8
	Ardrossan	58	47	56·9	49·7	53·3	+ 3·3	4	0·24	−0·80	*	*
	Silloth (Cumberland)	60	37	58·3	47·8	53·1	+ 1·9	2	0·03	−0·92	14	18
	Douglas (Isle of Man)	60	38	58·3	47·4	52·9	+ 1·7	3	0·79	−0·09	27	35
7. ENGLAND, N.W.	Barrow-in-Furness	66	46	60·0	51·4	55·7	+ 3·9	1	0·03	?	*	*
	Stonyhurst	60	41	58·2	48·1	53·2	+ 2·4	3	0·14	−1·29	21	27
	Blackpool ℳ	62	38	58·7	48·9	53·8	+ 1·5	4	0·06	−1·05	23	29
	Manchester	60	42	57·4	47·7	52·6	+ 0·9	4	0·20	−0·86	*	*
	Liverpool Obsy (Bidston)	61	42	57·7	49·7	53·7	+ 1·0	2	0·02	−1·07	*	*
	Llandudno ℳ	60	44	88·0	50·8	54·4	+ 0·8	0	—	−1·02	27	35
	Holyhead	62	46	58·9	51·4	55·2	+ 1·6	3	0·07	−0·99	*	*
8. ENGLAND, S.W.	Pembroke	60	48	58·0	52·0	55·0	+ 1·5	3	0·17	−0·86	33	40
	Arlington (N. Devon)	60	41	58·0	46·6	52·3	− 0·3	5	0·18	?	*	*
	Cullompton ℳ	62	42	59·8	46·3	53·1	− 0·4	5	0·32	?	22	29
	Falmouth	60	46	58·1	50·7	54·4	− 0·4	3	0·17	−0·70	28	36
	Plymouth	63	45	60·2	47·5	53·9	− 0·8	2	0·42	−0·58	26	33
	Prawle Point	61	48	58·9	49·3	54·1	+ 0·6	2	0·18	?	*	*
9. IRELAND, N.	Londonderry	64	41	59·5	45·1	52·3	+ 1·9	3	0·12	−0·92	*	*
	Mullaghmore	58	46	57·6	49·0	53·3	+ 2·4	2	0·06	?	*	*
	Markree Castle	61	43	57·6	46·3	52·0	+ 1·1	2	0·02	−0·85	13	17
	Brookeborough	62	43	57·2	47·3	52·3	+ 2·0	3	0·07	?	*	*
	Armagh	60	44	57·3	47·5	52·4	+ 2·0	5	0·10	−0·71	17	22
	Donaghadee	59	42	57·7	50·0	53·9	+ 2·4	0	—	?	*	*
10. IRELAND, S.	Dublin	59	39	57·1	49·5	53·3	+ 1·6	3	0·08	−0·60	16	21
	Parsonstown	60	46	58·7	47·6	52·9	+ 1·3	2	0·37	−0·48	18	23
	Waterford	60	43	58·9	48·4	53·7	+ 0·9	4	0·66	−0·34	*	*
	Roche's Point	63	46	60·9	48·6	54·8	+ 1·6	2	0·30	−0·81	*	*
	Valencia	61	40	59·6	46·6	53·1	− 0·8	2	0·04	−1·44	26	33
	Foynes	60	41	57·4	46·9	52·2	+ 0·1	2	0·03	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

METEOROLOGICAL OFFICE,
116, VICTORIA STREET, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, OCTOBER 16, 1882.

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Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	61	41	56	48	52	5 above.	5	9	3 more.	6	8
	2. ENGLAND, N.E.	61	36	54	49	52	3 above.	4	11	4 more.	4	6
	3. ENGLAND, E.	62	40	56	48	52	1 above.	5	12	6 more.	4	5
	4. MID. COUNTIES	62	35	55	45	50	1 above.	6	17	10 more.	3	6
	5. ENGLAND, S.	63	38	58	48	53	2 above.	5	19	12 more.	8	11
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	64	40	57	48	52	4 above.	5	14	5 more.	5	7
	7. ENGLAND, N.W.	61	37	56	47	52	1 above.	4	7	5 less.	5	6
	8. ENGLAND, S.W.	62	35	58	49	53	1 above.	6	22	13 more.	12	16
	9. IRELAND, N.	62	32	57	45	51	2 above.	4	8	1 less.	21	29
	10. IRELAND, S.	65	33	58	46	52	2 above.	4	11	1 more.	26	35

General Remarks.

Weather has been extremely dull and gloomy in all parts of the Kingdom, and, except at the north-western stations, very rainy. Towards the end of the period the rain over England and in some parts of Scotland was very heavy and continuous.

Temperature has continued above the mean in all districts, and, as the excess has been least in England and greatest in Scotland, the average readings have been very uniform. The maxima were generally registered during the earlier part of the week, and were as high as 64° in "Scotland, W." and 65° in "Ireland, S.", and from 61° to 63° elsewhere. The minima, which occurred in most districts on the 16th, ranged from 32° or 33° in Ireland and 35° over central and south-western England, to 41° in the E. of Scotland.

Rainfall has been rather less than the mean in "England, N.W." and "Ireland, N.", but more elsewhere, the excess over central, southern, and south-western England being exceptionably large.

Bright sunshine, except in Ireland, shows a very striking decrease, and over the greater part of the Kingdom was almost entirely absent. The percentages varied from 37 in the S. of Ireland and 29 in "Ireland, N.", to 16 in "England, S.W.", and between 4 and 11 in all other districts.

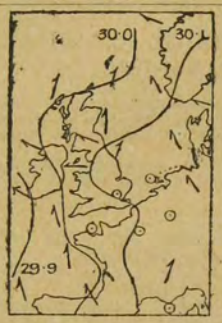
Depressions observed.—At the commencement of this period the barometer was falling steadily in nearly all parts of our area, and by the 11th a depression had advanced to Ireland from the Atlantic, with freshening southerly and south-westerly winds. This disturbance, which was very clearly defined, travelled in a south-south-easterly direction, and by the 14th had disappeared over southern France. During its progress the winds in our Islands backed to E. or N.E., and in some places blew freshly. At the close of the period another, and more complex, disturbance had reached the S.W. of England, and, moving slowly eastwards, was accompanied at all but the more northern stations by fresh south-easterly to north-easterly breezes. In Scotland and the N.E. of England strong southerly winds or gales were experienced.

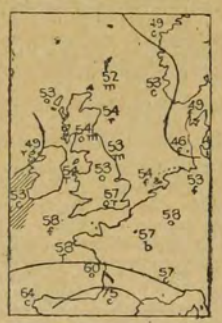
R 3976. 470.—10/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 16, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 10.

Weather fine in the E. of Scotland, as well as at Dover and Yarmouth, cloudy elsewhere, with fog in many places. Rain falling generally later.

Temperature falling except W. and S.W.; readings varying from 58° at Dover to 41° at Shields. Highest maxima 63° in London and 62° at Dover.

Wind moderate or fresh south-easterly in the S.W., but light airs between S.E. and S.W. elsewhere.

Sea moderate off the S. of Ireland, slight or smooth elsewhere.

Barometer falling generally. Readings tolerably uniform, but highest to the eastward of our islands and lowest off our S.W. coasts. Shallow depressions appearing in extreme W. later.

Wednesday, October 11.

Weather cloudy or overcast generally, with rain and mist in many parts of our Islands. Thunderstorm at Jersey in afternoon.

Temperature risen over Great Britain and France, and ranging from 58° along the S. coast of England to 48° at Nairn. Maxima rather lower than on previous day.

Wind south-westerly on our S.W. coasts, southerly or south-easterly elsewhere; light or moderate in force generally. Subsequently veering to W. in S., and freshening.

Sea rough in S.W., moderate or smooth elsewhere.

Barometer falling except in N. of Sweden, and large depression lying off our western coasts. New disturbance appearing in S.W. in evening.

Thursday, October 12.

Weather fair in Ireland and the N.W. of England, cloudy elsewhere, with fog or mist in the N., and showers in the S. Rain in Scotland later.

Temperature fallen several degrees generally; readings ranging from 58° at Yarmouth and 55° in Scotland to 44° at Mullaghmore and Oxford. Maxima lowest in S.E. of England; Cambridge only 52°.

Wind moderate south-easterly in Scotland, northerly in Ireland, and strong westerly over Bay of Biscay. Calms or variable airs at English stations. Northerly and north-easterly winds becoming general later.

Sea high at Scilly, rather rough on our N.E. and S.W. coasts.

Barometer rising N. and W., falling elsewhere. Readings still highest Sweden, with depressions over Scilly and S.E. of England. Former moving south-eastward later, and latter filling up.

Friday, October 13.

Weather very cloudy except in S. of England, with mist or fog in many places and drizzling rain over midland counties.

Temperature fallen France and S. of England, risen elsewhere; ranging from 58° at Holyhead to 46° at Hurst Castle. Rise extending to southern stations later.

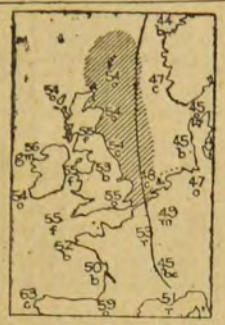
Wind moderate south-easterly in Scotland and north-easterly or northerly over England and Ireland, but strong westerly in S.W. of France. Light westerly airs on Channel coasts later.

Sea rough on our N.E. coasts, slight or smooth generally.

Barometer falling S. of France, rising elsewhere. Pressure still highest Sweden, with depression near Rochefort. Little change later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, October 14.

Weather fine and bright in W. of France, cloudy elsewhere, with fog or mist on our W. and S.W. coasts. Rain subsequently falling in W. and N.W.

Temperature fallen over Scandinavia, Denmark, and N. of England, risen elsewhere; ranging from 57° at Roche's Point to 53° in Central England. Maxima below 60° at majority of stations.

Wind south-easterly in N. and W., but easterly or north-easterly in England and France. Light or moderate generally.

Sea rough on our E. and N.E. coasts.

Barometer rising except in W. of Ireland, where slight fall shown. Depression noticed over France on previous day quite disappeared, but new disturbance showing itself on our western coasts. Mercury falling at all western and northern stations later.

Sunday, October 15.

Weather fine in S. of Ireland, cloudy or overcast elsewhere, with rain over Scotland and the W. and N. of England. Rain falling generally later.

Temperature falling generally; readings ranging from 56° at Scilly to 45° at Loughborough.

Wind north-westerly in S.W., southerly or south-easterly elsewhere; strong in force over N. of Scotland. Subsequently increasing to gale in N. and E. of Scotland.

Sea high at Aberdeen, rough on the E. and N. coasts generally.

Barometer still high and rising in Scandinavia, falling elsewhere. Complex area of low pressure over our western coasts, and fall of mercury continuing all day.

Monday, October 16.

Weather overcast at all but Irish stations, with heavy rain over the S. of England.

Temperature fallen a little at most stations; readings ranging from 57° at Hurst Castle to 34° at Parsonstown. Maximum in London only 50°.

Wind strong to a gale from S.E. and S. in N. and N.E. moderate from N.W. in S.W. and strong from W. in Bay of Biscay. Variable breezes at Channel stations.

Sea high at Sumburgh Head and Aberdeen, rough on our N. and E. coasts generally.

Barometer rising over the northern parts of Scandinavia and Scotland, falling elsewhere. Depression shown over S.W. of England and western part of Channel in morning, and travelling slowly eastward in course of day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	55	46	54·4	48·1	51·3	+4·4	5	0·25	−0·35	*	*
	Stornoway	62	44	56·1	47·1	51·6	+5·2	4	0·77	−0·34	13	18
	Wick	57	45	54·4	49·0	51·7	+5·1	4	0·56	−0·16	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	50	58·6	52·3	55·5	+0·7	7	1·16	+0·05	*	*
	Jersey (Noirmont)	61	48	59·1	52·1	55·6	+0·8	6	1·51	+0·69	18	24

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	61	46	56·0	48·6	52·3	+ 5·3	4	0·75	+0·17	*	*
	Aberdeen	60	45	55·4	49·4	52·4	+ 5·8	6	1·13	+0·38	6	8
	Leith	60	41	55·7	46·3	51·0	+ 3·3	5	0·92	+0·44	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	45	52·9	49·1	51·0	+ 3·5	6	1·30	?	*	*
	Shields	57	39	53·9	46·3	50·1	+ 1·9	5	1·06	+0·46	*	*
	Durham	58	36	53·6	46·2	49·9	+ 2·0	6	0·96	−0·25	3	4
	Scarborough ℔	57	47	54·6	51·0	52·8	+ 4·5	7	1·09	+0·39	*	*
	York	61	46	55·9	48·4	52·2	+ 3·0	6	1·54	+0·86	5	7
	Spurn Head	57	46	55·3	50·1	52·7	+ 3·6	5	0·35	?	*	*
3. ENGLAND, E.	Hillington ℔	61	40	56·3	47·2	51·8	+ 2·3	4	0·55	+0·02	4	5
	Yarmouth	59	44	55·4	49·0	52·2	+ 1·5	4	0·98	+0·30	*	*
	Geldeston	62	40	56·3	49·0	52·7	+ 1·7	5	1·38	+0·86	6	8
	Cambridge	60	43	54·9	46·1	50·5	− 0·1	6	1·23	+0·73	1	1
	Rothamsted	60	43	56·3	46·8	51·6	+ 1·7	6	1·85	+1·16	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	60	43	56·9	47·0	52·0	+ 2·3	6	1·19	+0·53	*	*
	Loughborough	61	42	54·7	45·4	50·1	+ 0·8	5	1·45	+0·75	*	*
	Leicester	62	41	58·2	46·1	52·2	+ 3·1	6	1·98	+1·38	3	4
	Birmingham (Oscott)	61	40	54·6	46·1	50·4	+ 1·5	6	2·01	+1·23	*	*
	Cheadle ℔	59	40	54·3	45·9	50·1	+ 1·9	5	2·04	?	*	*
	Churchstoke ℔	62	35	54·5	41·8	48·2	− 0·8	7	1·45	?	5	7
	Hereford ℔	62	37	55·8	44·8	50·3	+ 0·5	7	1·46	+0·67	*	*
	Cirencester	60	40	54·3	44·9	49·6	− 0·3	6	2·17	+1·39	3	4
	Oxford	61	43	55·3	45·4	50·4	+ 0·2	6	1·76	+1·08		
5. ENGLAND, S.	London†	63	45	57·4	47·6	52·5	+ 1·3	6	1·63	+0·98	3	4
	Marlborough ℔	59	39	55·8	45·4	50·6	+ 0·9	5	2·00	+1·15	7	9
	Strathfield Turgiss ℔	63	38	58·0	45·4	51·7	+ 0·9	5	1·86	+1·20	*	*
	Dover	62	48	57·4	52·6	55·0	+ 3·5	6	0·78	+0·03	*	*
	Hastings (St. Leonard's)	62	48	58·3	51·1	54·7	+ 3·4	5	2·33	+1·57	8	11
	Southampton	63	40	58·6	47·2	52·9	+ 1·4	5	2·53	?	13	18
	Hurst Castle	60	43	58·6	48·6	53·6	+ 1·6	5	2·21	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	63	47	58·1	48·9	53·5	+ 5·1	5	0·95	?	*	*
	Glasgow	59	46	55·0	48·9	52·0	+ 4·7	5	2·01	+1·03	0	0
	Ardrossan	60	46	56·3	47·7	52·0	+ 3·9	5	1·76	+0·72	*	*
	Silloth (Cumberland)	60	44	56·4	49·0	52·7	+ 3·7	4	0·86	−0·08	6	8
	Douglas (Isle of Man)	64	40	57·2	46·5	51·9	+ 2·0	4	1·35	+0·43	9	12
7. ENGLAND, N.W.	Barrow-in-Furness	61	45	56·0	47·7	51·9	+ 1·9	4	0·58	?	*	*
	Stonyhurst	59	42	55·2	47·3	51·3	+ 2·6	4	0·90	−0·52	3	4
	Blackpool ℔	60	37	55·8	46·4	51·1	+ 0·6	4	0·43	−0·72	3	4
	Manchester	60	40	56·3	46·5	51·4	+ 2·0	3	0·63	−0·42	*	*
	Liverpool Obsy (Bidston)	60	43	54·9	46·1	50·5	0·0	4	0·50	−0·60	*	*
	Llandudno ℔	59	42	55·8	57·3	51·6	+ 0·1	6	0·57	+0·48	7	9
	Holyhead	60	44	56·6	48·4	52·5	+ 0·8	6	0·93	−0·25	*	*
8. ENGLAND, S.W.	Pembroke	61	47	57·0	50·7	53·9	+ 1·2	6	1·16	+0·11	16	22
	Arlington (N. Devon)	60	40	56·3	46·6	51·5	+ 0·7	6	3·05	?	*	*
	Cullompton ℔	62	35	58·1	45·1	51·6	+ 0·4	7	3·06	?	4	5
	Falmouth	61	47	58·2	50·3	54·3	+ 1·3	6	1·73	+0·78	22	29
	Plymouth	61	40	58·8	47·5	53·2	+ 0·5	5	1·97	+1·02	5	7
	Prawle Point	62	45	57·4	50·9	54·2	+ 1·9	5	2·44	?	*	*
9. IRELAND, N.	Londonderry	61	35	58·4	43·4	50·9	+ 2·5	5	1·27	+0·16	*	*
	Mullaghmore	60	41	57·3	45·4	51·4	+ 2·8	3	0·71	?	*	*
	Markree Castle	60	32	58·1	41·9	50·0	+ 1·5	3	0·53	−0·37	31	42
	Brookeborough	62	33	56·8	42·9	49·9	+ 2·1	4	0·80	?	*	*
	Armagh	61	38	56·2	46·5	51·4	+ 3·2	4	0·80	−0·01	11	15
	Donaghadee	60	41	56·0	48·4	52·2	+ 2·0	5	0·87	?	*	*
10. IRELAND, S.	Dublin	61	37	57·0	46·3	51·7	+ 1·9	4	0·68	−0·02	17	23
	Parsonstown	61	33	58·0	43·9	51·0	+ 2·0	3	0·64	−0·18	? 28	? 37
	Waterford	60	39	58·0	46·6	52·3	+ 1·1	5	1·12	+0·08	*	*
	Roche's Point	62	46	59·4	49·1	54·3	+ 2·6	3	1·20	+0·11	*	*
	Valencia	65	43	58·3	46·9	52·6	+ 0·1	5	1·70	+0·10	33	45
	Foynes	61	38	58·3	43·4	50·9	+ 1·0	4	1·27	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, OCTOBER 23, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	33	53	41	47	1 above.	5	5	0 (average).	22	32
	2. ENGLAND, N.E.	58	36	53	44	48	1 above.	6	9	2 more.	16	23
	3. ENGLAND, E.	61	35	54	44	49	0 (average).	4	14	8 more.	17	25
	4. MID. COUNTIES	60	36	54	42	48	0 (average).	7	13	7 more.	17	25
	5. ENGLAND, S.	62	39	56	46	51	1 above.	6	19	12 more.	20	29
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	57	36	53	43	48	1 above.	6	19	8 more.	12	17
	7. ENGLAND, N.W.	59	36	53	44	49	0 (average).	6	18	6 more.	10	15
	8. ENGLAND, S.W.	61	36	55	46	51	1 below.	6	27	20 more.	20	28
	9. IRELAND, N.	59	38	54	44	49	1 above.	6	12	3 more.	23	33
	10. IRELAND, S.	62	33	55	44	50	0 (average).	6	22	12 more.	26	36

General Remarks.

Weather has been very unsettled and wet in all districts. Lightning was observed in many parts of England on the 22nd, and at some of our south-western stations thunderstorms and heavy hail showers were experienced.

Temperature has been slightly above or about equal to the mean generally, but in "England, S.W." it has been slightly below. The thermometer was highest either on the 20th or 21st, when readings varying from 57° in "Scotland, W." to 62° in "England, S." and "Ireland, S." were recorded. The minima, except over central Ireland, were registered on the last day of the period, and were as low as 33° in "Scotland, E." and "Ireland, S.", and from 35° to 39° elsewhere.

Rainfall has been about equal to the mean in the E. of Scotland, but more in all other districts. In the S. of England and Ireland the amount exceeded the mean by more than an inch and in the S.W. of England by as much as two inches.

Bright sunshine shows a general increase on that reported last week, but in most districts it was again very deficient. The percentages ranged from 15 in "England, N.W." to 32 in "Scotland, E.", 33 in "Ireland, N.", and 36 in "Ireland, S."

Depressions observed.—At the commencement of the period a depression was travelling slowly over the eastern part of the Channel towards the Netherlands, while the winds were north-easterly or northerly in England and south-easterly elsewhere. As this disturbance passed away the wind returned to the southward on all our coasts, and a series of depressions (none of which, however, proved very deep or important) advanced in rapid succession over our western and northern coasts, and moving north-eastwards or eastwards, gave us fresh or strong winds from between S. and W. On the 18th, the southerly wind increased to the force of a gale in Ireland and Scotland, and on the 22nd a fresh westerly gale was experienced in the western part of the Channel.

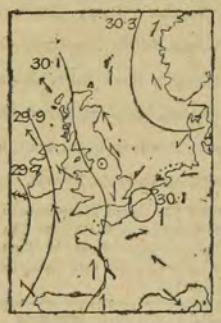
R 4044. 470.—10/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 23, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 17.

Weather cloudy or dull generally, with mist and drizzling rain in many parts of the southern districts. Sky clearing in Ireland and Scotland later.

Temperature fallen in E. and S.; readings ranging from 54° at Scilly to 42° at Nairn and 38° at Parsonstown. Maximum only 48° at Oxford and Cambridge and 50° in London.

Wind south-easterly or southerly in N., but north-easterly in S., north-westerly in Bay of Biscay, and southerly in E. of France. Strong to a gale in W. of France, moderate or fresh elsewhere.

Sea high at Shields, rough on our E. and N. coasts generally.

Barometer rising except Scandinavia. Readings still highest (30·6 ins.) N. of Sweden, with shallow depression over eastern half of English Channel. Depression partially filling up later, and barometer continuing to rise generally.

Wednesday, October 18.

Weather fine in Scotland and on the S.E. coast of England, cloudy elsewhere, with rain at Dover. Rain falling at all western and northern stations later.

Temperature fallen a little in Scotland and France, risen elsewhere; readings ranging from 55° at Scilly to 39° at Nairn. Maxima higher than on previous day, but still rather low generally.

Wind light north-easterly or northerly in S.E., fresh or strong south-easterly in W. and N. Fresh gale in Ireland and Scotland later.

Sea high at Valencia, rough on our N.E. coasts.

Barometer falling in Ireland and the N. of Sweden, rising elsewhere. Deep depression approaching our S.W. coasts, and fall of the barometer in W. subsequently extending to all parts of the kingdom.

Thursday, October 19.

Weather cloudy or overcast generally, with rain in many places. Some improvement taking place in S.W. later.

Temperature risen most places; readings ranging from 56° at Hurst Castle to 48° at Sumburgh Head.

Wind south-westerly in S.W., but south-easterly or southerly elsewhere. Blowing freshly or strongly generally, and with the force of a gale in the E. of Scotland.

Sea rough on our W. and N. coasts.

Barometer rising Sweden, falling elsewhere. Rather deep depression off our N.W. coasts. Disturbance subsequently moving slowly northwards, and slight recovery of mercury taking place in S.W.

Friday, October 20.

Weather fair at our more eastern stations, with fog in some places, but cloudy and showery in the W. and N.W. Sky clearing over England later.

Temperature fallen over British Isles, risen on Continent. Readings ranging from 54° at Valentia, Scilly, and Prawle Point to 40° at Loughborough. Maxima rather higher than of late; thermometer in London reaching 62°.

Wind south-easterly and easterly in Scandinavia and Denmark, southerly or south-westerly elsewhere. Blowing freshly or strongly in W. and N., and with force of gale in S. Norway.

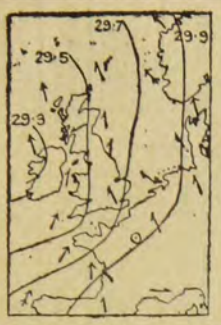
Sea rough off the N. of Scotland and on some parts of our western coasts.

Barometer rising over France and our S.W. coasts, falling elsewhere. Depression of previous day still moving slowly northward and increase of pressure becoming general in S. later.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.

Weather during the 24 hours succeeding the date of the Charts.



Saturday, October 21.

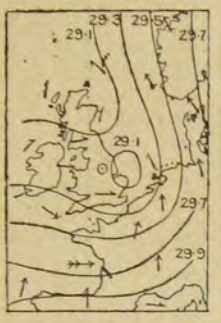
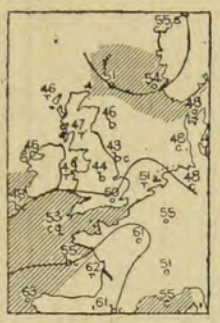
Weather fine in the E. of Scotland, cloudy or overcast elsewhere, with steady rain over the S. of England and N.W. of France. Rain subsequently extending to our more northern stations.

Temperature changed irregularly, readings ranging from 56° at Hurst Castle to 40° at Nairn. Maxima a little lower than those of previous day.

Wind south-westerly in S.W., southerly or south-easterly elsewhere; strong in force at some western and southern stations. Subsequently veering to W. or S.W. at all but extreme northern stations.

Sea rough on our S. and S.W. coasts, as well as at Sumburgh Head.

Barometer again falling generally. Readings still highest Sweden, but new depression shown off the W. of Ireland, with shallow subsidiary disturbances over England. Fall of mercury continuing all day.

Sunday, October 22.

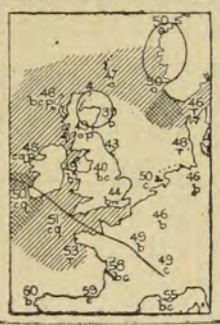
Weather cloudy or overcast, with rain in many places. Considerable improvement taking place during latter part of day.

Temperature risen in France, fallen over our Islands; readings ranging from 56° at Dover to 42° at Nairn.

Wind strong to a gale from W. over France and the Channel, and from S.E. on the eastern shores of the North Sea, but light or moderate from S.W. over Scotland and Ireland.

Sea rough at Sumburgh Head, and on our S. and S.W. coasts.

Barometer falling generally. Depression of previous day now some distance to the north-westward of Scotland, but subsidiaries over England increasing in importance and travelling away eastwards. Barometer rising in all places later.



Monday, October 23.

Weather dull in Scandinavia and rainy in Denmark, but fair in most parts of our Islands, though showery in the W. Showers falling in most places later.

Temperature fallen several degrees over France and our eastern districts, risen slightly in W.; readings ranging from 51° at Pembroke, Scilly, and Hurst Castle to 37° at Nairn.

Wind very similar to that of previous day, but shifting to W. at our western and north-western stations later, and moderating somewhat in the Channel.

Sea rough in our W. and S. coasts generally.

Barometer falling in Scandinavia and the N. of Scotland, rising elsewhere. Readings still highest Sweden, lowest off our N.W. coasts, but small subsidiary disturbances still crossing Ireland and England.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⋙ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	54	42	52·3	44·4	48·4	+2·4	7	1·39	+0·78	*	*
	Stornoway	54	34	52·1	43·3	47·7	+2·2	6	1·21	+0·09	20	29
	Wick	56	40	53·0	44·0	48·5	+3·1	4	0·69	−0·01	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	47	56·3	50·4	53·4	−0·4	6	2·02	+0·92	*	*
	Jersey (Noirmont)	59	46	57·4	50·3	53·9	+0·6	7	2·16	+1·31	29	40

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	54	35	51·6	38·7	45·2	− 0·7	4	0·24	−0·31	*	*
	Aberdeen	56	33	54·1	43·0	48·6	+ 3·0	5	1·00	+0·29	22	32
	Leith	59	37	53·9	41·0	47·5	+ 0·9	7	0·38	−0·04	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	36	51·6	42·1	46·9	+ 0·5	5	1·07	?	*	*
	Shields	57	37	53·0	43·4	48·2	+ 1·0	4	0·58	−0·01	*	*
	Durham	58	36	53·6	41·8	47·7	+ 0·9	7	0·75	+0·06	17	25
	Scarborough ℳ	57	39	53·0	45·5	49·3	+ 2·1	5	0·68	−0·01	*	*
	York	58	39	53·7	42·0	47·9	0·0	7	1·54	+0·89	14	20
	Spurn Head	58	41	53·9	47·0	50·5	+ 2·5	3	0·68	?	*	*
3. ENGLAND, E.	Hillington ℳ	60	35	54·6	43·4	49·0	+ 0·8	6	1·46	+0·92	13	19
	Yarmouth	58	39	54·6	47·1	50·9	+ 1·5	6	1·06	+0·45	*	*
	Geldeston	61	39	55·3	46·1	50·7	+ 1·1	6	1·24	+0·72	21	30
	Cambridge	60	36	?55·0	42·4	?48·7	?− 0·3	?	?	?	18	25
	Rothamsted	56	37	52·5	41·6	47·1	− 1·2	7	1·80	+1·18	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	58	38	54·9	42·1	48·5	+ 0·2	6	1·14	+0·49	*	*
	Loughborough	59	38	54·1	42·1	48·1	+ 0·3	6	1·27	+0·62	*	*
	Leicester	58	39	53·6	43·2	48·4	+ 0·8	7	1·34	+0·78	16	23
	Birmingham (Oscott)	57	38	53·8	42·2	48·0	+ 0·8	7	1·15	+0·41	*	*
	Chendle ℳ	54	36	51·3	40·7	46·0	− 0·8	7	1·06	?	*	*
	Churchstoke ℳ	56	39	52·5	41·1	46·8	− 0·8	7	1·20	?	20	29
	Hereford ℳ	59	36	54·7	42·1	48·4	− 0·2	7	1·12	+0·37	*	*
	Cirencester	57	40	52·3	42·7	47·5	− 0·8	6	2·12	+1·37	15	21
	Oxford	60	42	55·1	44·7	49·9	+ 1·2	6	1·54	+0·92	?18	?25
5. ENGLAND, S.	London†	62	40	55·6	44·0	49·8	0·0	7	1·35	+0·74	15	21
	Marlborough ℳ	56	40	53·2	43·5	48·4	+ 0·2	7	2·42	+1·64	19	27
	Strathfield Turgiss ℳ	59	39	55·6	43·9	49·8	+ 0·5	7	2·05	+1·32	*	*
	Dover	59	44	56·7	49·3	53·0	+ 2·7	6	1·46	+0·71	*	*
	Hastings (St. Leonard's)	60	44	57·2	48·1	52·7	+ 2·6	5	1·57	+0·82	27	38
	Southampton	60	41	56·2	45·2	50·7	+ 0·7	6	2·21	?	20	28
	Hurst Castle	58	42	56·6	47·1	51·9	+ 1·2	6	2·36	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	54	39	52·2	44·3	48·3	+ 1·0	6	2·43	?	*	*
	Glasgow	54	40	51·9	43·2	47·6	+ 1·4	7	1·43	+0·48	6	9
	Ardrossan	54	39	52·9	43·4	48·2	+ 1·2	6	2·05	+1·03	*	*
	Silloth (Cumberland)	57	36	53·8	42·3	48·1	+ 0·3	6	1·24	+0·34	10	14
	Douglas (Isle of Man)	57	40	53·0	44·0	48·5	− 0·1	7	2·33	+1·33	19	27
7. ENGLAND, N.W.	Barrow-in-Furness	55	44	53·0	46·0	49·5	+ 0·6	6	2·17	?	*	*
	Stonyhurst	55	41	52·2	42·8	47·5	0·0	6	2·51	+1·11	10	14
	Blackpool ℳ	55	39	52·9	42·7	47·8	− 1·6	6	2·49	+1·38	6	9
	Manchester	59	36	53·4	42·2	47·8	− 0·4	5	1·34	+0·31	*	*
	Liverpool Obsy (Bidston)	57	43	52·9	44·6	48·8	− 0·3	5	0·98	−0·02	*	*
	Llandudno ℳ	58	41	53·1	45·2	49·2	− 1·2	6	1·22	+0·20	15	21
	Holyhead	57	43	54·1	46·6	50·4	− 0·2	6	1·53	+0·33	*	*
8. ENGLAND, S.W.	Pembroke	56	44	54·4	48·9	51·7	+ 0·3	6	1·83	+0·80	18	25
	Arlington (N. Devon)	61	40	54·4	42·0	48·2	− 1·3	7	3·61	?	*	*
	Cullompton ℳ	58	36	55·0	43·8	49·4	− 0·5	6	2·52	?	17	24
	Falmouth	58	45	55·1	48·1	51·6	− 0·3	6	2·98	+1·98	27	38
	Plymouth	58	39	55·8	45·2	50·5	− 1·0	6	2·33	+1·43	17	24
	Prawle Point	57	44	55·4	47·1	51·3	+ 0·1	5	2·71	?	*	*
9. IRELAND, N.	Londonderry	59	42	54·9	43·3	49·1	+ 1·7	5	0·65	−0·46	*	*
	Mullaghmore	57	43	54·1	46·0	50·1	+ 2·4	6	1·39	?	*	*
	Markree Castle	59	38	55·2	41·0	48·1	+ 0·7	6	1·39	+0·53	27	39
	Brookeborough	58	41	52·9	43·0	48·0	+ 1·3	6	1·77	?	*	*
	Armagh	55	41	52·5	44·4	48·5	+ 1·4	7	0·92	+0·12	19	27
	Donaghadee	56	38	53·0	44·1	48·6	− 0·5	3	0·99	?	*	*
10. IRELAND, S.	Dublin	57	42	53·8	45·3	49·6	+ 0·7	4	0·61	−0·09	25	36
	Parsonstown	58	33	53·7	40·9	47·3	− 0·5	5	1·61	+0·81	24	34
	Waterford	59	39	55·4	41·9	48·7	− 1·5	6	2·22	+1·19	*	*
	Roche's Point	62	44	56·6	46·3	51·5	+ 0·9	6	2·82	+1·76	*	*
	Valencia	58	41	56·0	45·9	51·0	− 0·5	7	4·23	+2·64	28	39
	Foynes	60	40	54·9	43·1	49·0	+ 0·3	7	1·95	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, OCTOBER 30, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	52	26	48	34	41	3 below.	4	4	2 less.	29	45
	2. ENGLAND, N.E.	54	29	50	39	44	1 below.	5	14	7 more.	20	30
	3. ENGLAND, E.	57	27	52	37	45	3 below.	6	23	18 more.	18	27
	4. MID. COUNTIES	58	28	50	36	43	3 below.	6	18	12 more.	14	20
	5. ENGLAND, S.	57	28	53	40	46	1 below.	6	21	14 more.	12	18
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	55	29	49	37	43	3 below.	4	7	3 less.	25	38
	7. ENGLAND, N.W.	56	32	51	41	46	2 below.	5	6	5 less.	18	26
	8. ENGLAND, S.W.	56	28	52	40	46	3 below.	6	13	3 more.	21	31
	9. IRELAND, N.	54	27	50	36	43	3 below.	4	4	5 less.	36	53
	10. IRELAND, S.	56	29	52	38	45	3 below.	4	7	3 less.	29	43

General Remarks.

Weather has been much finer than of late in the northern and north-western parts of the Kingdom, but over the greater part of England overcast skies and heavy falls of rain have been reported.

Temperature has been several degrees lower than during last week, and has ranged from 1° to 3° below the mean for the season. The maxima, which were generally registered either on the 24th or 30th, varied from 58° in the "Midland Counties" to 52° in "Scotland, E." The minima occurred at most stations on the 26th, and were much lower than any hitherto recorded during the present autumn, the values ranging from 26° in "Scotland, E." to 32° in "England, N.W."

Rainfall has been decidedly less than the mean in Scotland, Ireland, and the N.W. of England, but in all other districts an excess is reported. Over central, southern, and eastern England the excess was as great as 1·2 inches, 1·4 inches, and 1·8 inches respectively.

Bright sunshine shows a slight decrease in duration in "England, S." and the "Midland Counties," but a considerable increase elsewhere. The percentages ranged from 53 in "Ireland, N." and 45 in "Scotland, E.", to 18 in "England, S."

Depressions observed.—During this period barometric pressure over our Islands and their neighbourhood has been influenced by two well marked and important depressions. The first of these was small but deep and advanced with great rapidity from the south-westward early on the 24th, reaching the N. of Denmark by 8 A.M. on the 25th. It then moved less quickly and in a more northerly direction, at the same time filling up, and finally disappeared over the N. of Norway. During its passage over the S. and E. of England it caused gales of exceptional violence from nearly all points of the compass, and on the following day heavy gales on the eastern shores of the North Sea. The second disturbance appeared to the south-westward of Brittany on the 27th; it first moved in a south-easterly direction, but during the 28th its course was changed to N.E., and afterwards to N. or N.N.W. The winds were consequently easterly to north-easterly, and, though light in the northern parts of the Kingdom, blew strongly at all the more southern stations and a strong gale over the south-eastern counties.

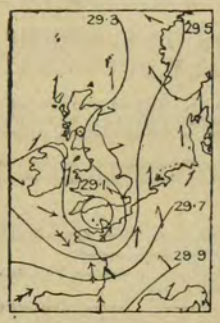
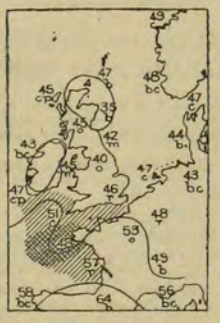
R 4114. 470.—11/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 30, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 24.

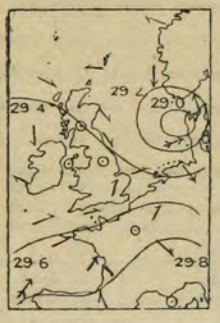
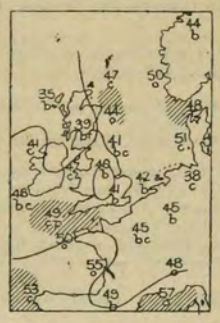
Weather still showery in the W., fine at first in the N., but exceedingly rough and wild over the southern, midland, and eastern parts of England; heavy rains everywhere, snow over the midland counties, and thunder in places.

Temperature changing irregularly; rising in the E., but falling to the freezing point during the morning at many inland stations, then rising again considerably.

Wind light and variable in the W. and N., but blowing a very severe gale from S., W., and N.W. over the Channel and the south-eastern half of England; wind lulling towards night.

Sea very high in the S.W. and S.

Barometer falling very rapidly in S. and E. A small but deep depression travelling north-eastwards across central England during the morning.

Wednesday, October 25.

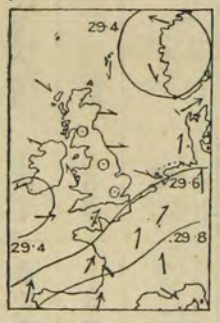
Weather much finer in the E. and S. than on the 24th, but still in a showery unstable condition elsewhere.

Temperature fallen in the S.E., not much changed in the W. and N. Rising to between 50° and 55° in most places during the day.

Wind light and variable in our Islands, chiefly from the westward, but strong from S.W. over the southern parts of the Bay of Biscay.

Sea gone down considerably, but still rather rough in the S.W.

Barometer rising generally in our Islands. Yesterday's depression now found over the Skagar Rack.



Thursday, October 26.

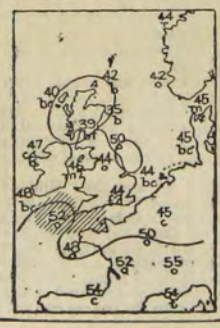
Weather very changeable and unsettled; thunderstorms over our northern districts, and variable showery weather elsewhere.

Temperature much lower over England than of late, but rising again to between 50° and 55° during the day.

Wind drawing into S.E. except on our S. coast, where it was southerly and south-westerly; force generally moderate.

Sea continuing rough on our south-western coasts.

Barometer uniformly low over our Islands. Shallow depression appearing off our W. coasts and moving irregularly.



Friday, October 27.

Weather very wild and stormy again over France and rather rough and rainy in S. and E. of England—much finer in the N.

Temperature risen rapidly in morning, but the day maxima not so high as on few previous days.

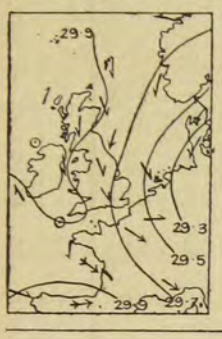
Wind blowing a hard gale from various quarters over France—chiefly easterly in the northern departments. The easterly gale subsequently spreading to our south-eastern counties and blowing very severely.

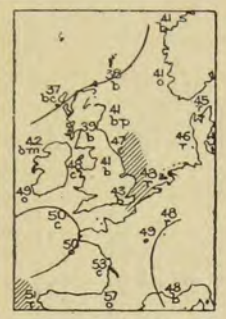
Sea rough and rising in S.

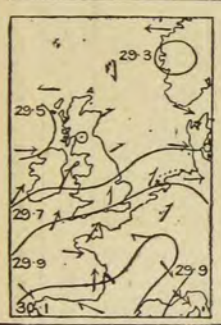
Barometer rising in N., falling rapidly in France. Depression advancing over France from Bay of Biscay.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, October 28.

Weather very wild and rainy over the south-eastern half of England, fine and bright in the western and north-western parts of the Kingdom. Improving somewhat in S.E. later.

Temperature changing little and fitfully.

Wind generally north-easterly over England, and blowing hard over the eastern and southern parts of the country during nearly the whole day, but backing and lulling in the night.

Sea very rough in the E., S., and S.W.

Barometer still rising in N. The depression of yesterday now over France, and a subsidiary disturbance over Belgium. The depression moving north-north-eastwards later on.

Sunday, October 29.

Weather improving somewhat over England, but inclined to break up again in Ireland, where rain again set in later.

Temperature rising especially in the W. Maxima of 56° to 58° recorded at some of the south-western stations, but not in other districts.

Wind lulling from N. and N.W. over our more eastern districts, and south-westerly winds setting in over our western districts later on.

Sea still rough in the E., but going down.

Barometer still rising in E., but beginning to fall again in W. The French depression now over N. Germany and moving north-north-westerly over Denmark later on.

Monday, October 30.

Weather again changeable and showery all over the country, with a very unsettled appearance of the sky over England, and a good deal of rain.

Temperature fallen (temporarily) in Scotland—to 32° in many places—risen over England.

Wind now south-westerly all over Ireland and England, but remaining northerly and north-easterly in the N. of Scotland all day. The south-westerly wind blowing rather strongly in the Channel during day.

Sea rough in W. and S.

Barometer very unsteady. The depression to the eastward of the North Sea now found over the S.W. of Norway and dispersing slowly. New depression off our N.W. coasts, and subsidiaries travelling over England.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	52	35	48·7	39·3	44·0	−0·8	4	0·42	−0·18	•	•
	Stornoway	54	32	50·1	34·3	42·2	−2·2	3	0·58	−0·52	36	56
	Wick	54	32	48·7	34·1	41·4	−2·9	4	0·39	−0·31	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	58	45	54·9	47·3	51·1	−1·4	6	0·99	−0·07	•	•
	Jersey (Noirmont)	57	44	53·7	46·3	50·0	−1·3	7	1·58	+0·78	22	32

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	49	30	46·1	34·1	40·1	− 4·3	3	0·75	+0·22	*	*
	Aberdeen	52	30	49·1	34·4	41·8	− 2·2	5	0·18	−0·52	29	45
	Leith	52	26	50·1	33·6	41·9	− 3·0	5	0·30	−0·12	*	*
2. ENGLAND, N.E.	Alnwick Castle	49	31	47·4	38·4	42·9	− 2·0	5	0·42	?	*	*
	Shields	51	34	50·1	38·4	44·3	− 1·4	4	0·53	−0·07	*	*
	Durham	54	29	49·3	35·2	42·3	− 2·8	6	2·01	+1·33	23	35
	Scarborough ℳ	54	37	50·2	41·2	45·7	+ 0·1	6	2·29	+1·59	*	*
	York	54	34	50·9	37·7	44·3	− 1·8	5	1·25	+0·64	16	24
	Spurn Head	53	39	50·9	42·7	46·8	+ 0·4	6	1·63	?	*	*
3. ENGLAND, E.	Hillington ℳ	57	31	52·9	36·7	44·8	− 1·7	7	2·01	+1·48	15	22
	Yarmouth	53	36	51·3	40·1	45·7	− 1·8	6	2·20	+1·58	*	*
	Geldeston	54	32	52·6	38·5	45·6	− 2·1	6	2·93	+2·38	21	31
	Cambridge	55	29	52·7	35·1	43·9	− 3·1	6	1·96	+1·55	19	28
	Rothamsted	53	27	50·8	35·4	43·1	− 4·0	7	2·49	+1·91	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	29	51·0	35·9	43·5	− 3·3	6	2·09	+1·49	*	*
	Loughborough	55	30	51·1	35·6	43·4	− 2·6	5	2·18	+1·58	*	*
	Leicester	54	30	50·5	36·9	43·7	− 2·1	7	1·92	+1·39	15	22
	Birmingham (Oscott)	56	31	?50·2	36·0	?43·1	− 2·3	5	2·43	+1·73	*	*
	Cheadle ℳ	51	28	47·2	35·4	41·3	− 3·8	6	1·59	?	*	*
	Churchstoke ℳ	53	30	48·3	35·4	41·9	− 3·7	7	1·26	?	10	15
	Hereford ℳ	58	28	51·1	34·8	43·0	− 3·5	5	1·31	+0·61	*	*
	Cirencester	54	28	49·4	34·9	42·2	− 4·5	6	1·38	+0·68	14	21
	Oxford	57	32	50·7	37·3	44·0	− 2·7	6	1·94	+1·34	?15	?22
5. ENGLAND, S.	London†	56	31	52·6	37·7	45·2	− 2·5	6	2·17	+1·59	8	12
	Marlborough ℳ	55	28	49·7	35·4	42·6	− 3·6	6	1·69	+0·99	15	22
	Strathfield Turgiss ℳ	56	28	52·3	35·8	44·1	− 3·1	6	1·62	+1·02	*	*
	Dover	56	41	53·3	44·7	49·0	+ 0·6	6	1·58	+0·79	*	*
	Hastings (St. Leonard's)	56	41	53·3	44·1	48·7	+ 1·3	6	3·63	+2·99	10	15
	Southampton	57	33	53·8	39·1	46·5	− 1·7	7	1·56	?	16	24
	Hurst Castle	57	39	53·7	43·0	48·4	− 0·4	6	2·29	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	50	33	47·4	35·6	41·5	− 4·3	4	0·78	?	*	*
	Glasgow	50	29	46·8	35·5	41·2	− 3·3	5	0·33	−0·58	20	31
	Ardrossan	55	32	50·4	36·7	43·6	− 1·9	3	0·36	−0·64	*	*
	Silloth (Cumberland)	55	32	50·4	37·8	44·1	− 2·0	3	0·66	−0·19	26	39
	Douglas (Isle of Man)	53	35	50·5	39·4	45·0	− 1·9	6	1·14	+0·12	30	45
7. ENGLAND, N.W.	Barrow-in-Furness	56	41	53·0	43·0	48·0	+ 0·6	5	0·38	?	*	*
	Stonyhurst	50	32	49·1	39·0	44·1	− 1·8	5	0·56	−0·78	18	27
	Blackpool ℳ	54	32	51·2	39·4	45·3	− 2·6	3	0·33	−0·68	23	24
	Manchester	51	33	49·4	37·5	43·5	− 3·0	6	0·83	−0·17	*	*
	Liverpool Obsy (Bidston)	53	35	50·1	40·6	45·4	− 2·3	5	0·55	−0·33	*	*
	Llandudno ℳ	53	38	50·6	42·1	46·4	− 2·6	5	0·44	−0·53	12	18
	Holyhead	53	41	51·3	43·4	47·4	− 2·0	4	0·97	−0·13	*	*
8. ENGLAND, S.W.	Pembroke	55	42	52·3	43·4	47·9	− 1·8	5	1·43	+0·43	22	32
	Arlington (N. Devon)	53	35	49·7	38·0	43·9	− 3·7	5	1·78	?	*	*
	Cullompton ℳ	53	28	51·4	35·0	43·2	− 5·0	7	0·90	?	18	26
	Falmouth	55	42	52·2	44·7	48·5	− 1·8	6	0·98	−0·12	25	35
	Plymouth	55	36	53·0	39·4	46·2	− 3·8	6	0·64	−0·21	20	29
	Prawle Point	56	37	53·3	41·0	47·2	− 2·5	6	1·93	?	*	*
9. IRELAND, N.	Londonderry	53	30	50·9	34·1	42·5	− 3·6	3	0·26	−0·84	*	*
	Mullaghmore	53	38	51·4	39·9	45·7	− 0·8	3	0·43	?	*	*
	Markree Castle	54	27	51·1	31·5	41·3	− 4·9	2	0·21	−0·60	38	57
	Brookeborough	52	27	49·6	32·3	41·0	− 4·3	4	0·29	?	*	*
	Armagh	51	31	48·1	36·4	42·3	− 3·4	7	0·47	−0·28	33	49
	Donaghadee	53	33	51·3	39·4	45·4	− 2·0	3	0·51	?	*	*
10. IRELAND, S.	Dublin	52	32	49·1	39·3	44·2	− 3·2	6	1·09	+0·39	29	43
	Parsonstown	53	29	50·1	30·3	40·2	− 6·1	4	0·25	−0·49	27	40
	Waterford										*	*
	Roche's Point	55	38	53·7	40·1	46·9	− 2·3	4	0·95	−0·13	*	*
	Valencia	56	38	54·1	41·6	47·9	− 2·4	5	1·11	−0·39	32	47
	Foynes	54	35	50·8	38·9	44·9	− 2·7	3	0·25	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, NOVEMBER 6, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Loudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	30	50	39	45	2 above.	6	8	2 more.	17	28
	2. ENGLAND, N.E.	60	31	53	43	48	4 above.	6	8	1 more.	11	18
	3. ENGLAND, E.	61	37	56	44	50	5 above.	7	10	5 more.	17	27
	4. MID. COUNTIES	60	37	55	43	49	5 above.	7	13	7 more.	14	23
	5. ENGLAND, S.	61	40	57	47	52	6 above.	6	9	3 more.	20	31
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	58	39	52	44	48	4 above.	7	25	9 more.	8	13
	7. ENGLAND, N.W.	58	40	54	46	50	4 above.	7	19	10 more.	9	15
	8. ENGLAND, S.W.	60	37	56	46	51	4 above.	7	19	10 more.	9	14
	9. IRELAND, N.	59	31	53	40	47	2 above.	6	16	8 more.	9	14
	10. IRELAND, S.	59	36	55	44	50	3 above.	6	25	15 more.	11	17

General Remarks.

Weather has continued cloudy and very rainy in all parts of the Kingdom. Over the "Wheat-producing Districts" the rainfall has been less heavy than it was last week, but in all the "Grazing Districts" it has been much heavier. Thunderstorms occurred on the 1st or 2nd at several of our north-western stations and on the 4th in the E. of England.

Temperature, which has been much higher than of late, has exceeded the mean in all districts. Over eastern, central, and southern England the excess was as much as 5° or 6°; in "Scotland, W." and the other parts of England, 4°; and in Ireland and the E. of Scotland from 2° to 3°. The thermometer was generally highest on the 5th, when it rose to 60° or 61° in nearly all the English districts, to 59° in Ireland, and to 54° and 58° respectively in the E. and W. of Scotland. The minima were nowhere so low as those of last week, and varied from 40° in "England, N.W." and "England, S.", to 30° in the E. of Scotland.

Rainfall has again been more than the mean in all districts, the excess being considerable at all the western stations.

Bright sunshine has been much less prevalent than during last week in Ireland, Scotland, and the western and extreme north-eastern parts of England, but in "England, S." and the "Midland Counties" a slight increase in duration is reported. The percentages ranged from 13 in "Scotland, W.", to 31 in "England, S."

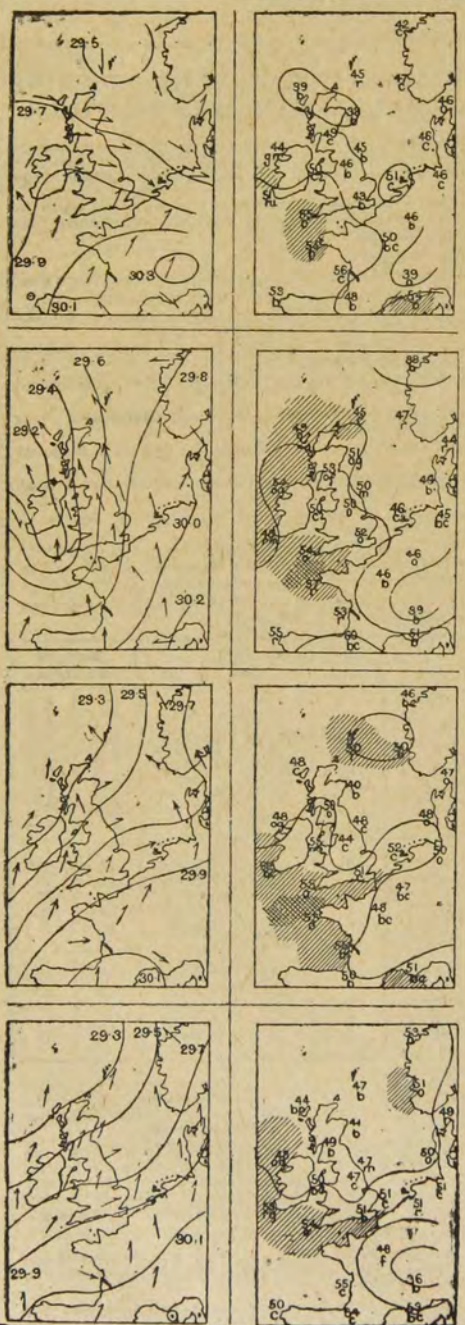
Depressions observed.—Numerous disturbances, some of which were very deep, have again traversed our Islands and their neighbourhood in an easterly or north-easterly direction, bringing a succession of strong winds or gales from between S. and W. to all parts of the Kingdom. The most important depressions were those of the 1st and 3rd.

R 4177. 470.—11/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending November 6, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 31.

Weather fine at all but Irish stations, where overcast, with rain and a threatening appearance at Valencia. Dull rainy weather subsequently extending to all western stations.

Temperature fallen in most places; readings ranging from 55° at Scilly to 37° at Nairn.

Wind westerly at all the more eastern stations, but south-westerly or southerly in the W., and south-easterly at Valencia. Moderate at first, but subsequently increasing to strong breeze on our western coasts.

Sea rough in the Bay of Biscay and on our S.W. coasts.

Barometer rising at all stations excepting Valencia. Readings highest France, and depression of previous few days shown off the W. of Norway. New disturbance subsequently advancing to our W. coasts and occasioning a brisk fall of the mercury there.

Wednesday, November 1.

Weather dull generally, with heavy rain in the W. and N.W. and showers in most other districts.

Temperature risen several degrees in our Islands, fallen on the Continent; readings ranging from 55° at Prawle Point to 46° at Nairn. Subsequently falling a little in W. and S.W.

Wind southerly or south-easterly; strong in W. and S., with whole gale at Scilly. Blowing a strong gale from S.W. or W. at all southern stations later and veering to N.W. in Ireland.

Sea rough in W. and S.W., as well as off the N. of Scotland.

Barometer rising Scandinavia and Denmark, falling briskly our Islands. Deep depression appearing off W. Ireland, with subsidiary in S.W. Both passing north-eastwards later, and barometer rising quickly in S.W.

Thursday, November 2.

Weather fair in E. and N., dull in W. Cloudy rainy weather subsequently extending to all but extreme south-eastern stations.

Temperature fallen in all parts of our Islands; readings ranging from 55° at Holyhead, Pembroke, and Scilly to 40° at Aberdeen.

Wind strong south-easterly on eastern shores of North Sea and in Shetlands, southerly and south-westerly elsewhere. Blowing a moderate gale in S.W. Slight southerly and south-westerly gales at all western and northern stations later.

Sea rough in the W. and S.

Barometer rising Sweden, France, and southern England, falling elsewhere. Readings highest Sweden and S. France, but large depression shown off our N.W. coasts and subsidiary disturbances crossing Ireland and England.

Friday, November 3.

Weather still overcast in Scandinavia and Ireland, moderately fine elsewhere. Rain setting in in W. later, and gradually extending over whole country.

Temperature fallen in most places, and ranging from 54° at Scilly, Dover, and Jersey to 41° at Nairn and Aberdeen.

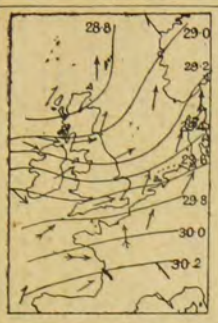
Wind south-easterly in Scandinavia, south-westerly or southerly elsewhere; moderate or fresh in force generally, but blowing moderate gale at Valencia. Subsequently increasing to fresh gale on all but our S.E. coasts.

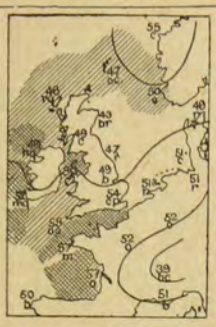
Sea rough in Channel and off the W. of Ireland.

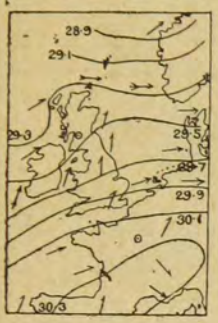
Barometer rising most stations, but falling a little at Valencia. Depression of previous day passing away to northward of Scotland, but new and deep disturbance travelling along our W. and N.W. coasts later, and barometer falling briskly generally.

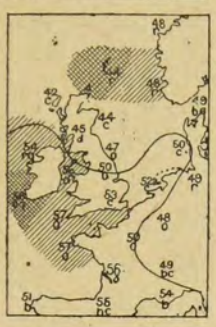
Synoptic Weather Charts.—8 a.m.

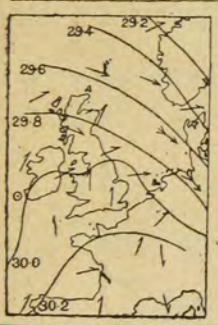
BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.











Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 4.

Weather still unsettled and showery, but at majority of stations sky only partially clouded.

Temperature risen slightly; readings ranging from 56° at Dover and Jersey to 43° at Nairn.

Wind south-easterly or southerly in Scandinavia, westerly or south-westerly elsewhere; strong to a gale in force on all coasts. Subsequently veering to westward generally.

Sea rough on all but our E. coasts.

Barometer rising over S. of France, falling elsewhere. Readings highest France and relatively high Sweden, but deep depression lying to the northward of Scotland. Disturbance subsequently moving away north-eastwards, and mercury rising in all parts of our Islands.

Sunday, November 5.

Weather cloudy or overcast generally, with rain in Norway and the W. of our Islands. Rain subsequently falling generally.

Temperature risen W. and S.W., fallen slightly most other districts; readings ranging from 57° at Scilly to 42° at Stornoway. Highest maxima 61° at Cambridge and in London and 60° at York and Oxford.

Wind generally from points between W. and S.; strong in S. and blowing moderate or fresh gale in W. Subsequently veering to N.W. in W., and increasing to strong gale in S.

Sea still rough on all but our E. coasts.

Barometer falling quickly in Sweden, and less rapidly on our W. coasts, rising elsewhere. Depression of previous day now off the N.W. of Norway, but subsidiary disturbance appearing on our own N.W. coasts and afterwards crossing Scotland.

Monday, November 6.

Weather cloudy in extreme W. and S.W., with rain at Valencia, Scilly, and Jersey, fine elsewhere. Dull rainy weather extending to all southern stations later.

Temperature fallen several degrees, and ranging from 52° at Pembroke to 39° at Wick and Loughborough. Maxima several degrees lower than on previous day.

Wind light south-westerly or westerly in our Islands, strong to a gale from W.N.W. on eastern shores of North Sea. Freshening somewhat in S. in evening.

Sea rough at Sumburgh Head and Barrow-in-Furness, moderate or smooth elsewhere.

Barometer rising at all but south-western stations. Subsidiary disturbance of previous day now over Baltic, but small well-defined depression crossing S. of England late in evening, and barometer falling generally.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	51	39	49·4	41·9	45·7	+1·9	7	1·64	+1·02	*	*
	Stornoway	53	35	49·1	39·1	44·1	+0·7	7	1·54	+0·44	8	13
	Wick	52	32	49·4	38·1	43·8	+0·6	6	0·66	−0·04	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	48	56·4	50·9	53·7	+2·3	6	1·21	+0·21	*	*
	Jersey (Noirmont)	59	48	57·9	50·4	54·2	+4·5	5	0·71	−0·08	16	24

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	52	31	48·4	38·4	43·4	+ 0·4	6	0·48	−0·05	*	*
	Aberdeen	53	30	50·3	37·3	43·8	+ 0·9	6	0·58	−0·12	17	28
	Leith	54	40	51·9	42·0	47·0	+ 3·6	6	1·26	+0·85	*	*
2. ENGLAND, N.E.	Alnwick Castle	56	31	50·9	41·1	46·0	+ 2·5	6	1·06	?	*	*
	Shields	59	40	53·0	42·4	47·7	+ 3·3	4	0·53	−0·09	*	*
	Durham	57	40	52·2	42·1	47·2	+ 3·7	6	0·68	−0·02	13	21
	Scarborough ⚓	58	41	53·0	44·6	48·8	+ 4·5	5	0·77	+0·06	*	*
	York	60	41	54·0	43·3	48·7	+ 4·1	7	0·81	+0·21	9	14
	Spurn Head	59	43	53·1	45·3	49·2	+ 4·1	5	0·70	?	*	*
3. ENGLAND, E.	Hillington ⚓	58	40	54·9	43·8	49·4	+ 4·5	7	1·41	+0·87	11	17
	Yarmouth	59	41	54·1	45·4	49·8	+ 3·9	6	0·88	+0·24	*	*
	Geldeston	59	41	56·6	46·1	51·4	+ 5·4	6	0·65	+0·08	22	34
	Cambridge	61	37	56·6	42·4	49·5	+ 4·5	7	1·02	+0·62	19	29
	Rothamsted	59	40	56·2	43·7	50·0	+ 5·4	7	1·21	+0·66	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	59	39	55·0	42·9	49·0	+ 3·9	6	0·89	+0·34	*	*
	Loughborough	59	39	54·6	44·1	49·4	+ 5·5	7	1·03	+0·35	*	*
	Leicester	59	39	54·4	44·4	49·4	+ 5·3	7	1·22	+0·71	17	27
	Birmingham (Oscott)	58	38	54·0	43·1	48·6	+ 5·2	7	0·89	+0·25	*	*
	Cheadle ⚓	56	37	52·4	42·3	47·4	+ 3·9	7	1·44	?	*	*
	Churchstoke ⚓	60	38	54·1	42·7	48·4	+ 4·4	7	1·92	?	11	17
	Hereford ⚓	59	39	57·1	44·1	50·6	+ 5·7	7	1·26	+0·61	*	*
	Cirencester	58	37	54·4	41·9	48·2	+ 3·7	7	1·81	+1·16	12	20
	Oxford	60	41	56·4	45·3	50·9	+ 5·9	7	1·13	+0·58	17	26
5. ENGLAND, S.	London†	61	40	58·4	45·4	51·9	+ 6·0	7	0·60	+0·08	16	25
	Marlborough ⚓											
	Strathfield Turgiss ⚓	60	40	57·0	44·9	51·0	+ 5·5	7	1·06	+0·50	*	*
	Dover	57	43	55·7	47·6	51·7	+ 4·5	6	1·00	+0·20	*	*
	Hastings (St. Leonard's)	58	43	56·9	48·8	52·9	+ 5·9	7	0·72	+0·02	27	42
	Southampton	59	42	57·6	47·0	52·3	+ 5·8	6	1·38	?	17	26
	Hurst Castle	58	47	57·0	49·9	53·5	+ 5·7	5	0·78	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	53	41	50·8	42·5	46·7	+ 2·1	7	4·13	?	*	*
	Glasgow	55	40	51·2	42·9	47·1	+ 4·0	7	1·68	+0·79	6	10
	Ardrossan	55	41	52·3	44·7	48·5	+ 4·4	7	1·84	+0·87	*	*
	Silloth (Cumberland)	55	41	53·0	45·2	49·1	+ 4·5	7	2·14	+1·36	8	13
	Douglas (Isle of Man)	58	39	53·5	45·0	49·3	+ 3·6	7	2·64	+1·61	10	16
7. ENGLAND, N.W.	Barrow-in-Furness	55	47	53·6	48·1	50·9	+ 4·8	6	2·05	?	*	*
	Stonyhurst	55	40	52·0	43·8	47·9	+ 3·5	7	2·31	+1·03	10	16
	Blackpool ⚓	56	45	53·8	46·6	50·2	+ 3·7	7	1·90	+1·02	12	19
	Manchester	57	41	53·5	43·2	48·4	+ 3·4	7	2·15	+1·21	*	*
	Liverpool Obsy (Bidston)	58	44	54·1	46·3	50·2	+ 3·9	7	1·21	+0·44	*	*
	Llandudno ⚓	56	44	?53·9	46·9	?50·4	?+ 2·8	7	1·51	+0·61	6	9
	Holyhead	57	45	54·9	47·6	51·3	+ 3·0	7	2·30	+1·35	*	*
8. ENGLAND, S.W.	Pembroke	56	43	55·3	48·4	51·9	+ 3·7	7	1·91	+0·96	6	9
	Arlington (N. Devon)	57	40	55·1	44·6	49·9	+ 3·9	7	2·92	?	*	*
	Cullompton ⚓	60	37	55·7	44·1	49·9	+ 3·1	7	1·76	?	10	15
	Falmouth	59	47	55·9	48·8	52·4	+ 3·5	7	2·22	+1·08	7	11
	Plymouth	60	41	57·1	46·1	51·6	+ 3·2	6	1·27	+0·47	5	8
	Prawle Point	58	46	55·9	49·0	52·5	+ 4·2	7	1·36	?	*	*
9. IRELAND, N.	Londonderry	57	38	53·2	40·8	47·0	+ 2·1	7	1·83	+0·83	*	*
	Mullaghmore	55	42	53·3	44·1	48·7	+ 3·3	6	1·98	?	*	*
	Markree Castle	57	31	52·8	38·1	45·5	+ 0·7	6	1·45	+0·65	8	13
	Brookeborough	56	32	51·7	38·2	45·0	+ 1·0	6	1·85	?	*	*
	Armagh	56	35	51·7	41·3	46·5	+ 1·9	6	1·11	+0·42	9	14
	Donaghadee	59	37	53·3	40·1	46·7	+ 0·8	6	1·44	?	*	*
10. IRELAND, S.	Dublin	59	42	54·3	44·5	49·4	+ 3·3	6	1·15	+0·45	12	19
	Parsonstown	57	39	54·3	41·4	47·9	+ 3·0	6	1·86	+1·16	11	17
	Waterford										*	*
	Roche's Point	57	42	56·3	46·3	51·3	+ 3·3	7	2·37	+1·27	*	*
	Valencia	58	45	55·7	46·0	50·9	+ 1·6	7	4·15	+2·77	10	15
	Foynes	57	36	55·0	42·9	49·0	+ 3·0	6	2·78	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) Robert H. Scott,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, NOVEMBER 13, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Rawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	50	28	44	32	38	4 below.	5	7	1 more.	14	25
	2. ENGLAND, N.E.	50	29	45	36	41	2 below.	6	9	2 more.	18	30
	3. ENGLAND, E.	53	26	48	36	42	2 below.	5	3	2 less.	29	47
	4. MID. COUNTIES	54	26	47	35	41	2 below.	4	7	2 more.	25	40
	5. ENGLAND, S.	56	25	50	38	44	0 (average).	4	7	1 more.	27	43
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	49	27	45	34	39	3 below.	4	14	4 more.	16	28
	7. ENGLAND, N.W.	51	26	47	37	42	3 below.	5	11	2 more.	19	31
	8. ENGLAND, S.W.	58	30	50	40	45	1 below.	5	13	4 more.	21	33
	9. IRELAND, N.	51	23	46	33	39	4 below.	4	11	3 more.	23	38
	10. IRELAND, S.	54	25	48	36	42	4 below.	5	8	1 less.	27	45

General Remarks.

Weather has again been unsettled, cloudy, and rainy in all places. A sharp thunderstorm was experienced at some of our north-western stations on the 7th; and another, accompanied by heavy hail showers, over central England on the following day.

Temperature has been about equal to the mean in "England, S.", but has ranged from 1° to 4° below in all other districts. The thermometer was generally highest during the earlier part of the period; but the highest maximum reading for the week (58° at Plymouth) was registered on the 10th. The minima, which occurred either on the 12th or 13th, were much lower than those of last week, and varied from 30° in "England, S.W." to 25° in "England, S." and "Ireland, S.", and 23° in "Ireland, N."

Rainfall shows a slight deficit in the E. of England and S. of Ireland, but in all other districts the fall was rather in excess of the mean.

Bright sunshine has been more prevalent than during last week in all districts, except "Scotland, E." The percentage of possible duration varied from 47 in "England, E." and 43 in "England, S.", to 28 in "Scotland, W." and 25 in "Scotland, E."

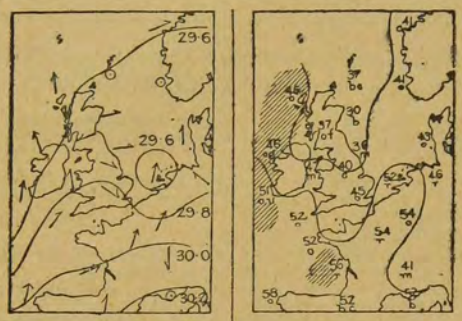
Depressions observed.—During the greater part of this period depressions have again travelled over our Islands in an easterly or north-easterly direction, bringing strong winds or gales from between S. and W. or N.W. to all our coasts. By the morning of the 12th, however, the conditions had undergone a decided change. The barometer had risen briskly at all our more northern stations, while it showed a tendency to fall in the S.W. and over France. On the following day pressure continued to increase over our northern counties, while a depression, which had approached the N.W. of France from the south-westward, moved in an easterly direction and caused easterly gales or strong winds on our S. and S.E. coasts, and moderate easterly breezes elsewhere.

It 4252. 470.—11/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending November 13, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 7.

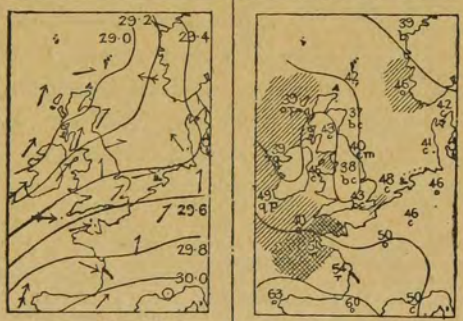
Weather fine in the E. and S.E., cloudy or overcast elsewhere, with mist or fog in many places. Rain subsequently falling in W. and gradually extending over the entire Kingdom.

Temperature fallen, generally—several degrees in the N.E. Readings ranging from 52° at Scilly and Jersey to 35° at Nairn.

Wind light north-westerly in S. and E., fresh or strong southerly in extreme W. and N.W. Fresh or strong gale from S.W. and S. in W. and N. later.

Sea rough off the W. of Ireland and Scotland.

Barometer rising somewhat Scandinavia, falling elsewhere. Readings highest over S. France. Depression noticed in S.W. on previous evening now over Netherlands, but new and deeper disturbance appearing in N.W. later.



Wednesday, November 8.

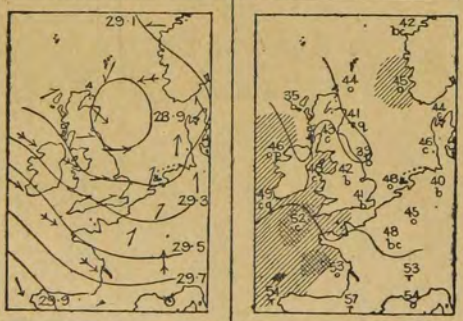
Weather fair in the E. and S.E., cloudy or overcast elsewhere, with rain in the W. and S.W. Rain extending to all but extreme south-eastern stations later.

Temperature risen N.E., fallen slightly elsewhere; readings ranging from 49° at Scilly to 38° at York and Loughborough and 36° at Nairn.

Wind south-easterly in Norway and Denmark, south-westerly in our Islands and France. Blowing fresh gale in W. and S.

Sea rough in the W. and S.

Barometer falling generally—quickly in W. and N. Depression of Tuesday now off the N. of Scotland, but small and deep disturbance appearing over N. Ireland in evening, and subsequently travelling eastwards.



Thursday, November 9.

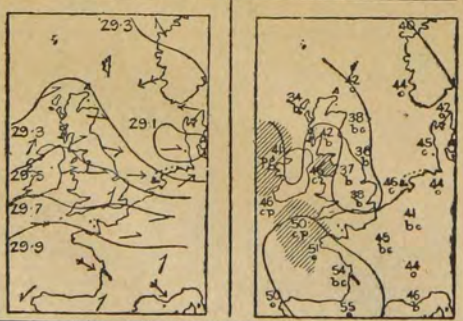
Weather fair in most districts, but rainy at Aberdeen and Jersey, and showery at Mullaghmore. Showers falling at all western and northern stations later.

Temperature changed irregularly; readings ranging from 52° at Scilly to 35° at Stornoway.

Wind southerly in Denmark and easterly in Scandinavia, but north-westerly elsewhere. Strong to a gale on many parts of our western and northern coasts.

Sea rough in W. and S.

Barometer falling at all but our western stations. Highest readings now reported from N. of Spain, and depression of previous evening passing across North Sea. Rise in W. extending to all parts later.



Friday, November 10.

Weather overcast in Scandinavia and Denmark, but generally fine in our Islands, with, however, some showers at the western stations. Slight rain subsequently falling generally.

Temperature fallen a little; readings ranging from 50° at Scilly to 37° over central England and 34° at Stornoway.

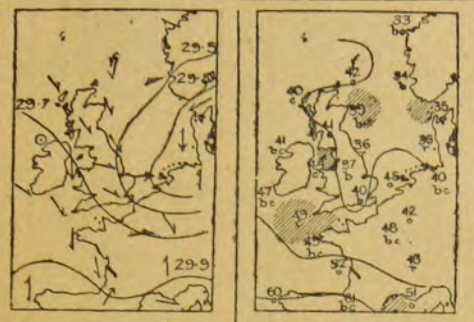
Wind strong to a gale from E. in the S. of Norway, but generally westerly elsewhere, and fresh to strong in the Channel. Subsequently becoming rather variable at our more northern stations.

Sea still rough in the W. and S.W.

Barometer falling a little in the W. of Ireland, rising elsewhere. Depression of Wednesday and Thursday now over Denmark, but fresh disturbance appearing over N. Ireland later and gradually crossing our more northern districts.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 11.

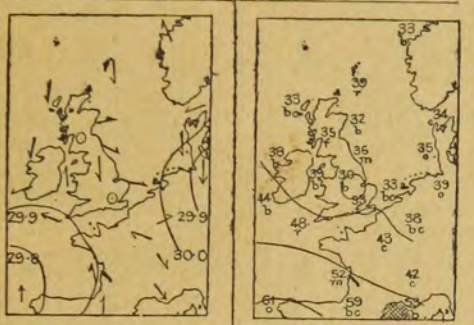
Weather rainy in Denmark and the N.E. of England, fine generally elsewhere. Rain ceasing in N.E. later.

Temperature fallen on eastern shore of North Sea, changed irregularly elsewhere. Readings ranging from 49° at Scilly to 35° at Wick.

Wind generally north-westerly; light in N. and W., fresh or strong in S.

Sea rather rough at Aberdeen and in the western part of the Channel.

Barometer falling a little in France, the Netherlands, and Denmark, rising elsewhere. Depression of Wednesday still over Denmark, and disturbance of previous day near the Helder, but both moving away eastwards later and pressure becoming very uniform.



Sunday, November 12.

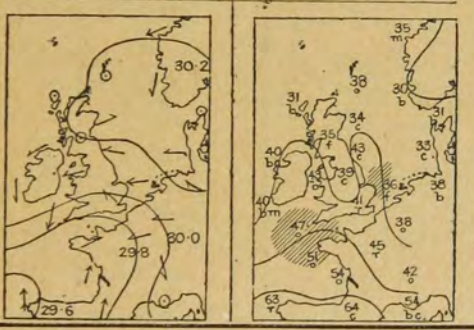
Weather dull and rainy in S.W., fair in all other districts, but foggy in several places. Rain ceasing in S.W. later.

Temperature fallen generally; readings ranging from 48° at Scilly to 26° at Loughborough and Parsonstown. Maximum only 40° at Oxford, and 37° at Nairn.

Wind light and variable at all northern and eastern stations, but easterly in extreme S.W., and blowing strongly at Scilly. Easterly breeze subsequently setting in on all southern coasts.

Sea moderate or smooth generally.

Barometer rising briskly at all but our south-western stations. Pressure very uniform in the N. and E., but depression appearing off our S.W. coasts, and moving slowly eastwards.



Monday, November 13.

Weather fine at all but the extreme southern stations, where overcast, with some rain and mist.

Temperature risen several degrees over England and varying from 54° at Jersey to 29° at Parsonstown.

Wind light and variable in Scotland, strong to a gale from E. in the S. of England, moderate from S. in the S.W. of France.

Sea very high at Prawle Point, rough in the S. and S.E. generally.

Barometer falling over France and our southern coasts, rising elsewhere. Anticyclone over S. of Norway and small depression near Brest. Latter moving eastward later, but fresh disturbance appearing over W. France.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	47	30	45·4	35·9	40·7	−1·9	7	1·17	+0·56	*	*
	Stornoway	52	29	46·9	32·1	39·5	−2·8	6	0·36	−0·68	26	46
	Wick	48	30	45·1	32·9	39·0	−3·0	5	0·58	−0·15	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	38	51·6	44·4	48·0	−2·0	6	0·70	−0·28	*	*
	Jersey (Noirmont)	55	43	53·4	45·9	49·7	+2·2	7	3·70	+2·95	17	27

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	46	30	41·3	32·9	37·1	− 4·4	3	0·38	−0·15	*	*
	Aberdeen	48	28	44·6	32·3	38·5	− 2·9	7	1·31	+0·63	14	25
	Leith	50	28	45·6	31·1	38·4	− 3·4	4	0·35	−0·10	*	*
2. ENGLAND, N.E.	Alnwick Castle	45	34	43·7	35·9	39·8	− 2·2	6	0·86	?	*	*
	Shields	46	33	45·3	34·9	40·1	− 2·9	6	0·61	−0·04	*	*
	Durham	47	31	44·6	33·4	39·0	− 2·9	6	1·48	+0·78	16	27
	Scarborough ⚓	48	37	46·5	39·0	42·8	+ 0·1	5	1·06	+0·30	*	*
	York	50	29	46·0	34·9	40·5	− 2·4	6	0·78	+0·18	20	33
	Spurn Head	48	38	46·4	39·6	43·0	− 0·5	5	0·53	?	*	*
3. ENGLAND, E.	Hillington ⚓	48	27	46·1	35·7	40·9	− 2·3	4	0·24	−0·30	19	31
	Yarmouth	51	31	46·7	37·1	41·9	− 2·0	4	0·44	−0·25	*	*
	Geldeston	53	28	48·8	37·1	43·0	− 1·1	5	0·39	−0·21	35	56
	Cambridge	50	26	47·6	34·1	40·9	− 2·3	3	0·28	−0·11	33	53
	Rothamsted	53	27	48·4	35·5	42·0	− 0·7	7	0·28	−0·22	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	49	26	46·6	32·6	39·6	− 4·0	5	0·48	−0·02	*	*
	Loughborough	49	26	47·0	34·1	40·6	− 1·7	6	0·54	+0·03	*	*
	Leicester	49	27	46·5	34·1	40·3	− 1·9	5	0·52	+0·02	26	43
	Birmingham (Oscott)	49	27	46·6	34·0	40·3	− 1·3	5	0·55	−0·01	*	*
	Cheadle ⚓	47	32	45·1	34·7	39·9	− 1·9	5	0·99	?	*	*
	Churchstoke ⚓	49	26	45·8	33·1	39·5	− 2·5	5	1·10	?	19	31
	Hereford ⚓	54	35	49·0	36·3	42·7	− 0·3	3	0·53	−0·08	*	*
	Cirencester	49	29	46·4	35·3	40·9	− 1·6	3	1·14	+0·52	28	45
	Oxford	51	30	47·7	36·3	42·0	− 1·0	3	0·70	+0·29	26	42
5. ENGLAND, S.	London†	52	28	49·0	37·0	43·0	− 0·9	4	0·40	−0·06	21	34
	Marlborough ⚓	51	27	47·2	35·1	41·2	− 1·3	4	0·69	+0·08	30	48
	Strathfield Turgiss ⚓	55	25	49·1	35·5	42·3	− 1·2	4	0·45	−0·06	*	*
	Dover	51	38	48·7	40·7	44·7	− 0·8	4	0·64	−0·22	*	*
	Hastings (St. Leonard's)	56	37	51·5	40·8	46·2	+ 0·8	4	0·79	+0·09	30	48
	Southampton	56	31	51·3	38·3	44·8	+ 0·5	5	1·17	?	26	41
	Hurst Castle	53	36	50·7	41·1	45·9	0·0	4	0·72	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	46	31	42·6	33·9	38·3	− 4·8	4	1·53	?	*	*
	Glasgow	46	27	43·0	32·1	37·6	− 3·7	5	1·18	+0·29	11	19
	Ardrossan	49	33	46·0	35·0	40·5	− 2·1	4	1·16	+0·23	*	*
	Silloth (Cumberland)	48	27	45·0	33·4	39·2	− 3·8	4	1·47	+0·77	21	36
	Douglas (Isle of Man)	49	31	46·6	36·6	41·6	− 2·2	4	1·40	+0·38	17	28
7. ENGLAND, N.W.	Barrow-in-Furness	49	33	47·7	38·3	43·0	− 1·6	4	1·49	?	*	*
	Stonyhurst	47	29	45·3	34·1	39·7	− 3·1	5	1·50	+0·30	24	39
	Blackpool ⚓	49	26	46·9	34·8	40·9	− 4·1	4	1·25	+0·49	21	34
	Manchester	48	28	45·4	34·5	40·0	− 3·4	5	0·86	−0·04	*	*
	Liverpool Obsy (Bidston)	48	30	45·9	36·4	41·2	− 3·4	5	1·01	+0·35	*	*
	Llandudno ⚓	50	33	47·7	39·1	43·4	− 2·7	5	1·17	+0·33	13	21
	Holyhead	51	37	49·1	41·3	45·2	− 1·8	4	0·55	−0·29	*	*
8. ENGLAND, S.W.	Pembroke	53	37	49·4	41·4	45·4	− 1·1	4	1·02	+0·12	23	37
	Arlington (N. Devon)	51	30	48·0	?36·4	?42·2	? − 1·9	4	1·84	?	*	*
	Cullompton ⚓	52	31	49·4	36·5	43·0	− 2·1	5	1·13	?	23	37
	Falmouth	52	39	50·2	43·0	46·6	− 0·7	6	1·59	+0·39	20	31
	Plymouth	58	39	52·0	41·3	46·7	− 0·1	5	0·85	+0·05	17	27
	Prawle Point	54	38	51·0	41·6	46·3	− 0·5	6	1·54	?	*	*
9. IRELAND, N.	Londonderry	50	27	46·3	32·3	39·3	− 4·3	4	1·46	+0·56	*	*
	Mullaghmore	51	36	47·3	38·3	42·8	− 1·3	4	1·49	?	*	*
	Markree Castle	48	24	46·4	31·8	39·1	− 4·3	4	1·12	+0·32	23	38
	Brookeborough	50	23	45·7	30·1	37·9	− 4·6	4	1·21	?	*	*
	Armagh	48	29	45·6	32·0	37·8	− 5·4	4	0·76	+0·14	23	38
	Donaghadee	49	30	45·9	32·7	39·3	− 5·0	5	0·58	?	*	*
10. IRELAND, S.	Dublin	51	30	46·8	36·3	41·6	− 3·1	5	0·46	−0·23	25	41
	Parsonstown	49	25	46·4	32·3	39·4	− 4·0	4	0·78	+0·16	26	43
	Waterford	51	27	?48·1	33·1	40·6	− 5·4	5	0·45	−0·45	*	*
	Roche's Point	54	35	50·1	38·1	44·1	− 2·5	4	0·72	−0·39	*	*
	Valencia	54	35	51·4	39·6	45·5	− 2·6	5	1·10	−0·13	31	50
	Foynes	51	26	47·2	33·6	40·4	− 4·0	4	1·19	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Erratum.—In Report for week ending November 6th, the "Difference of Daily Average from Mean for the Week" at Churchstoke should be +4·4.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, NOVEMBER 20, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	44	26	41	31	36	4 below.	4	7	1 more.	12	22
	2. ENGLAND, N.E.	46	24	42	34	38	4 below.	5	5	2 less.	10	17
	3. ENGLAND, E.	48	22	42	32	37	5 below.	6	9	4 more.	12	20
	4. MID. COUNTIES	48	22	42	31	37	4 below.	5	7	2 more.	13	23
	5. ENGLAND, S.	51	21	44	33	39	4 below.	5	9	3 more.	14	24
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	51	25	43	33	38	3 below.	4	11	2 more.	9	15
	7. ENGLAND, N.W.	52	25	44	34	39	4 below.	4	9	2 more.	9	16
	8. ENGLAND, S.W.	53	25	46	35	41	4 below.	6	12	3 more.	18	29
	9. IRELAND, N.	56	21	46	34	40	3 below.	6	16	8 more.	13	23
	10. IRELAND, S.	55	25	48	35	42	3 below.	6	12	4 more.	10	17

General Remarks.

Weather has been very cloudy and unsettled, with frequent falls of cold rain, snow, or hail. A brilliant display of aurora has been observed on several occasions, that of the evening of the 17th being very general.

Temperature has been below the mean in all districts, the deficit ranging from 3° in Ireland and the W. of Scotland, to 5° in "England, E." The highest of the maxima (55° and 56°) were registered in Ireland. Over England the thermometer did not rise above 53°, and in "Scotland, E." 44° was the highest point reached. The minima were low everywhere, varying from 21° in "Ireland, N." and "England, S.", to 26° in "Scotland, E."; in Ireland and the N.W. of Great Britain they occurred during the earlier part of the period, but over the greater part of England temperature was lowest on the morning of the 18th.

Rainfall has been rather less than the mean in "England, N.E.", but more in all other districts; the greatest excess was eight-tenths of an inch in "Ireland, N."

Bright sunshine shows a considerable decrease in duration everywhere, the percentages ranging from 15 in "Scotland, W." to 29 in "England, S.W."

Depressions observed.—During nearly the whole of this period an area of high pressure has been established over Scandinavia and another area of comparatively high barometric readings over Spain, while over our Islands and the N. of France several depressions have appeared and generally travelled east-south-eastwards. The winds have consequently varied greatly in direction and frequently risen to fresh or strong gales—from the southward or south-westward in the N. and N.W., and from the north-eastward in the S.E. Towards the close of the period pressure gave way in Scandinavia, and westerly or north-westerly winds (in some places blowing a gale) set in on all our coasts.

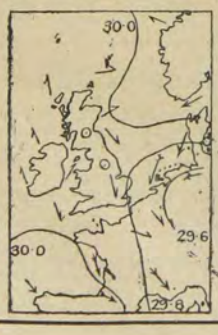
R 4341. 470.—11/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending November 20, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 14.

Weather fair in W. and N. and also on eastern shore of North Sea, dull at the southern and French stations, with rain in many places. Weather improving in S. later. Bright aurora seen in the N. of Scotland in evening.

Temperature fallen a little most stations; readings ranging from 46° at Scilly to 26° at Parsonstown. Maxima in neighbourhood of London not exceeding 41°.

Wind southerly in N., but north-easterly in S., and westerly in the W. of France. Blowing moderate or strong gale on all southern and south-eastern coasts.

Sea rough in S. and E.

Barometer falling in Scotland, France, and the S.E. of England, rising elsewhere. Readings highest (30·4 ins.) in S. Norway, but two small depressions passing eastwards across France.

Wednesday, November 15.

Weather dull in W., generally fine elsewhere, but with showers in the E. of England. Dull rainy weather subsequently extending to all coasts from the westward.

Temperature risen Ireland and Scotland, fallen elsewhere; readings ranging from 49° at Roche's Point to 30° at Loughborough. Maxima slightly higher than on Tuesday.

Wind still northerly or north-easterly in S.E., but moderating. Southerly winds reported from western and northern coasts and reaching force of gale at Stornoway and Mullaghmore. South-easterly gales subsequently experienced at all northern stations.

Sea rough on all but south-western coasts.

Barometer rising over France, falling elsewhere. Highest readings found over Gulf of Bothnia. Depressions of previous day now over Netherlands, but new disturbance appearing on our W. coasts and advancing across the country in an east-south-easterly direction.

Thursday, November 16.

Weather cloudy generally, with rain, hail, or sleet at many stations. Some improvement taking place in W. later, but conditions still rather showery.

Temperature risen in most places; readings ranging from 47° at Scilly to 33° at Oxford. Maxima very low: only 39° at Nairn, Oxford, and Cambridge, and 40° in London.

Wind easterly on Scandinavian, Danish, and eastern coasts, south-easterly in Scotland, northerly or north-easterly in W. and S., and southerly in east of France. Fresh or strong generally, with gales in many places.

Sea rough or high on all coasts.

Barometer falling on all but the extreme western and northern coasts. Depression of previous day now found off the Dutch coasts, and continuing to travel in an east-south-easterly direction. Recovery taking place generally later.

Friday, November 17.

Weather cloudy or dull in W., with rain at Valencia; fine on all our other coasts. Rain subsequently falling at all western stations, and brilliant aurora observed generally in evening.

Temperature fallen generally, and ranging from 46° at Scilly to 30° at Nairn and Aberdeen. Maxima still low.

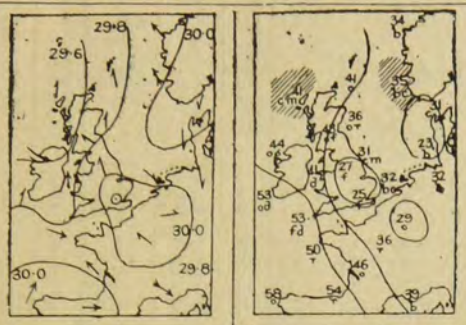
Wind moderate or fresh from N. and N.E. over Denmark, the Netherlands, France, and our S.E. coasts, but moderate from the southward in the extreme W. and N.W.

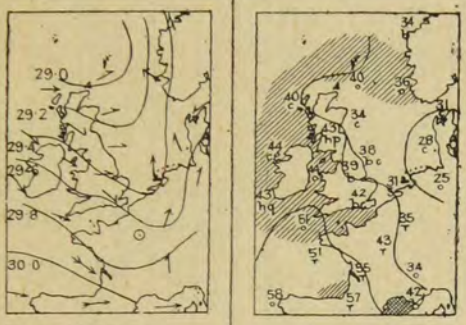
Sea rough on our E. coasts.

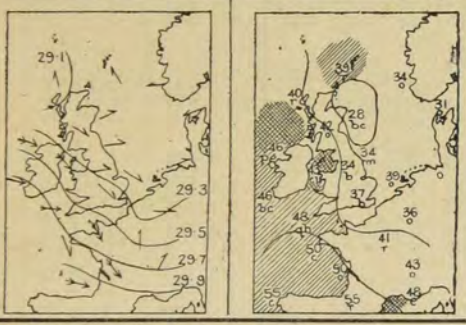
Barometer falling slightly in W. of Ireland and Scotland, rising elsewhere. Depression of Wednesday now disappearing over central Europe, but new disturbances beginning to pass along our western coasts.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 18.

Weather fair, but very foggy in S.E., cloudy or overcast elsewhere, with rain in many places. Cloud and rain subsequently extending over whole country. Aurora seen in Scotland in evening.

Temperature risen briskly in W. and N., fallen several degrees in S.E. Readings ranging from 53° at Valencia and Scilly to 23° over central England. Maxima much higher than of late.

Wind fresh or strong southerly in W. and N., but calms or variable airs reported in S.E. Southerly winds becoming general later, and blowing a gale in Scotland.

Sea generally moderate or slight.

Barometer rising at the south-eastern and continental stations, falling elsewhere. Area of comparatively high readings lying off our S.E. coasts, but rather deep depression appearing in N.W. Fall extending to all stations later.

Sunday, November 19.

Weather fine in E. and S.E., cloudy elsewhere, with showers in many places. Showers of rain and hail subsequently falling in all districts.

Temperature risen rapidly over England, fallen Ireland and Scotland; readings ranging from 51° at Scilly to 34° at Nairn and Aberdeen.

Wind easterly or south-easterly in Scandinavia and Denmark, westerly in our Islands. Fresh or strong in force in many places.

Sea rather rough on all but our E. coasts.

Barometer rising W., falling quickly N. and E. Depression of previous day now shown off N. of Scotland, and subsequently moving away northwards or north-eastwards.

Monday, November 20.

Weather again fine in E. and N., cloudy and showery in W., with hail in some places.

Temperature fallen except W. readings ranging from 48° at Scilly to 26° at Wick.

Wind southerly at Stornoway variable in the E. of Scotland, north-westerly elsewhere. Strong to a gale in the W. and S.W. Shifting to N. and N.E. in Scotland later.

Sea rough W. and S.W.

Barometer rising in W. of Ireland, falling elsewhere. New depression shown off W. of Scotland in morning, and moving in a south-easterly direction across our northern and eastern districts. Brisk recovery of pressure taking place in N. later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	45	29	42·9	34·4	38·7	−3·0	7	1·46	+0·84	*	*
	Stornoway	49	30	44·0	35·6	39·8	−1·5	6	1·58	+0·58	5	9
	Wick	44	25	42·3	33·1	37·7	−3·3	5	0·92	+0·16	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	39	50·7	42·6	46·7	−2·1	6	0·96	+0·03	*	*
	Jersey (Noirmont)	53	38	48·6	40·3	44·5	−1·6	6	2·33	+1·63	12	19

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	43	27	40·0	30·3	35·2	− 5·0	3	?0·55	? +0·02	*	*
	Aberdeen	44	26	41·6	31·0	36·3	− 3·9	5	1·07	+0·38	12	22
	Leith	44	28	41·9	31·7	36·8	− 3·6	5	0·38	−0·10	*	*
2. ENGLAND, N.E.	Alnwick Castle	43	27	40·3	33·0	36·7	− 4·0	5	0·87	?	*	*
	Shields	45	28	41·7	33·9	37·8	− 3·9	5	0·84	+0·17	*	*
	Durham	44	24	40·3	31·2	35·8	− 4·7	6	0·73	+0·03	8	14
	Scarborough ℳ	44	33	41·5	35·9	38·7	− 2·7	6	1·00	+0·22	*	*
	York	46	24	42·3	30·3	36·3	− 5·1	4	0·38	−0·18	11	19
	Spurn Head	44	34	42·7	37·6	40·2	− 1·9	4	0·35	?	*	*
3. ENGLAND, E.	Hillington ℳ	43	23	41·0	31·0	36·0	− 5·7	6	0·68	+0·13	6	10
	Yarmouth	45	31	42·4	34·6	38·5	− 4·0	7	0·71	−0·04	*	*
	Geldeston	45	27	42·7	33·5	38·1	− 4·4	7	1·07	+0·47	17	28
	Cambridge	48	22	42·9	30·0	36·5	− 5·0	5	0·86	+0·47	14	23
	Rothamsted	46	22	41·1	31·4	36·3	− 4·6	6	1·24	+0·78	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	45	22	42·3	30·9	36·6	− 5·5	5	0·89	+0·40	*	*
	Loughborough	47	23	43·3	29·9	36·6	− 4·3	5	0·63	+0·14	*	*
	Leicester	46	22	41·7	31·5	36·6	− 4·0	5	0·57	+0·08	11	19
	Birmingham (Oscott)	47	25	41·5	31·7	36·6	− 3·4	4	0·63	+0·11	*	*
	Cheadle ℳ	44	25	40·5	31·1	35·8	− 4·5	5	0·79	?	*	*
	Churchstoke ℳ	48	23	42·6	29·6	36·1	− 4·3	5	0·65	?	11	19
	Hereford ℳ	48	23	45·3	31·2	38·3	− 3·1	5	0·52	−0·08	*	*
	Cirencester	?46	22	?41·0	30·7	?35·9	? − 4·9	5	0·59	−0·01	16	27
	Oxford	47	22	43·6	31·1	37·4	− 4·0	5	0·79	+0·37	15	25
5. ENGLAND, S.	London†	48	24	43·7	32·4	38·1	− 4·2	5	0·70	+0·29	8	13
	Marlborough ℳ	48	22	41·3	30·3	35·8	− 5·0	5	0·97	+0·37	15	26
	Strathfield Turgiss ℳ	50	21	43·7	30·8	37·3	− 4·5	4	0·76	+0·28	*	*
	Dover	49	33	44·6	35·4	40·0	− 4·1	7	1·14	+0·24	*	*
	Hastings (St. Leonard's)	50	31	44·8	35·7	40·3	− 3·7	5	1·11	+0·46	19	31
	Southampton	51	26	45·0	33·1	39·1	− 3·9	5	0·69	?	15	25
	Hurst Castle	51	30	45·9	34 7	40·3	− 4·2	6	0·77	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡										*	*
	Glasgow	46	27	42·3	32·5	37·4	− 2·7	3	0·67	−0·19	1	2
	Ardrossan	46	30	43·7	33·0	38·4	− 2·9	4	0·72	−0·18	*	*
	Silloth (Cumberland)	45	25	42·2	30·2	36·2	− 5·4	4	0·49	−0·12	15	27
	Douglas (Isle of Man)	51	32	45·5	36·9	41·2	− 1·3	5	2·45	+1·45	10	17
7. ENGLAND, N.W.	Barrow-in-Furness	48	34	45·0	35·9	40·5	− 2·6	4	0·46	?	*	*
	Stonyhurst	46	25	43·1	31·6	37·4	− 4·0	4	1·03	−0·10	9	16
	Blackpool ℳ	48	26	43·8	31·8	37·8	− 5·9	4	0·78	+0·08	12	21
	Manchester	44	29	41·9	31·4	36·7	− 5·3	5	1·51	+0·69	*	*
	Liverpool Obsy (Bidston)	49	31	44·0	33·3	38·7	− 4·6	4	1·61	+1·05	*	*
	Llandudno ℳ	52	30	46·0	35·0	40·5	− 4·3	4	0·39	−0·41	7	12
	Holyhead	52	33	46·1	38·3	42·2	− 3·6	6	0·63	+0·07	*	*
8. ENGLAND, S.W.	Pembroke	52	36	46·7	39·7	43·2	− 1·8	6	1·15	+0·36	18	30
	Arlington (N. Devon)	51	25	44·3	31·7	38·0	− 4·5	5	1·63	?	*	*
	Cullompton ℳ	51	26	45·0	31·8	38·4	− 5·2	6	1·04	?	19	31
	Falmouth	53	34	48·0	39·7	43·9	− 2·1	7	1·69	+0·48	20	32
	Plymouth	52	29	46·6	34·2	40·4	− 5·0	6	0·87	+0·08	15	24
	Prawle Point	53	31	47·6	35·3	41·5	− 4·0	6	0·71	?	*	*
9. IRELAND, N.	Londonderry	56	25	48·1	32·3	40·2	− 2·2	7	1·58	+0·75	*	*
	Mullaghmore	52	36	46·9	38·1	42·5	− 0·6	6	1·24	?	*	*
	Markree Castle	52	21	45·2	31·6	38·4	− 3·9	6	1·26	+0·48	13	23
	Brookeborough	51	24	44·1	31·3	37·7	− 3·7	6	1·93	?	*	*
	Armagh	51	27	43·4	32·8	38·1	− 4·0	7	1·79	+1·39	13	22
	Donaghadee	51	33	45·4	36·7	41·1	− 1·9	5	1·69	?	*	*
10. IRELAND, S.	Dublin	53	32	45·4	36·5	41·0	− 2·5	6	1·07	+0·45	13	22
	Parsonstown	53	25	46·3	31·1	38·7	− 3·4	6	1·06	+0·46	4	7
	Waterford	54	31	47·3	33·8	40·6	− 4·2	7	0·82	−0·09	*	*
	Roche's Point	54	34	50·1	37·0	43·6	− 1·8	6	1·50	+0·36	*	*
	Valencia	55	31	50·9	38·0	44·5	− 2·6	7	1·73	+0·60	14	23
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, NOVEMBER 27, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	27	43	35	39	1 below.	6	12	7 more.	8	16
	2. ENGLAND, N.E.	54	30	47	38	42	2 above.	6	6	1 less.	17	32
	3. ENGLAND, E.	57	30	48	38	43	2 above.	5	5	1 less.	16	28
	4. MID. COUNTIES	60	31	49	38	43	3 above.	6	8	3 more.	16	28
	5. ENGLAND, S.	57	32	50	41	45	3 above.	5	7	1 more.	20	35
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	54	32	47	39	42	1 above.	7	20	5 more.	6	10
	7. ENGLAND, N.W.	55	32	48	41	44	2 above.	7	16	9 more.	6	11
	8. ENGLAND, S.W.	55	36	51	43	47	3 above.	7	14	5 more.	17	29
	9. IRELAND, N.	58	33	47	39	44	2 above.	7	17	10 more.	10	18
	10. IRELAND, S.	55	34	50	40	45	1 above.	6	8	1 less.	13	23

General Remarks.

Weather has continued very cloudy and unsettled, with frequent showers of rain, sleet, or hail.

Temperature, which has been several degrees higher than during last week, has exceeded the mean in all districts, the excess over central, southern, and south-western England being 3°. The maxima were generally high for the season and were registered at most stations on the 22nd or 23rd. In the "Midland Counties" the thermometer rose to 60°, in "Ireland, N." to 58°, and in the E. and S. of England to 57°. The minima occurred either on the first or last day of the week, and varied from 27° in "Scotland, E." and 30° in the E. and N.E. of England, to 36° in "England, S.W."

Rainfall has been slightly less than the mean in "Ireland, S.", "England, N.E.", and "England, E.", but more in all other districts. In the E. of Scotland, the N.W. of England, and N. of Ireland the excess was considerable.

Bright sunshine shows a further decrease in duration in most parts of the Kingdom, the percentages ranging from 35 in "England, S." to 10 in "Scotland, W."

Depressions observed.—Several depressions, more or less deep and important, have again travelled over our Islands and the North Sea in a south-easterly or easterly direction, and, as the barometer has been comparatively high over France and Spain and low in Scandinavia, westerly to north-westerly winds have prevailed during the whole period. In force, the wind was generally moderate or fresh, but in many exposed places it blew strongly, and at times increased to a fresh gale.

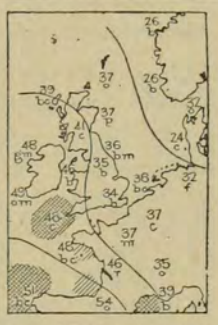
R 4437. 470.—12/82. Wt. 233. E. & S.

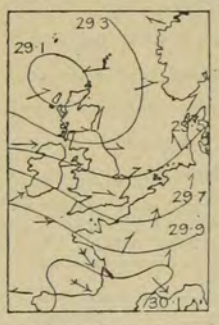
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending November 27, 1882.

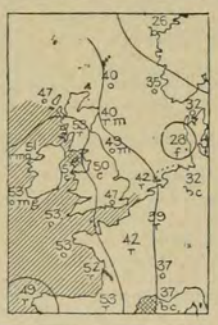
Synoptic Weather Charts.—8 a.m.

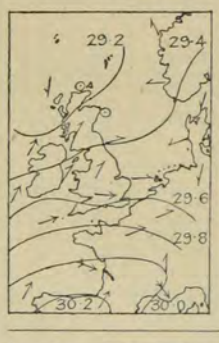
BAROMETER AND WIND.

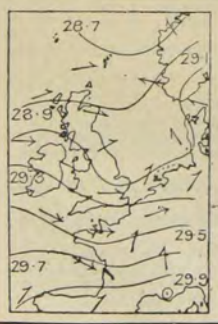
CLOUD, RAIN, SEA, AND TEMPERATURE.

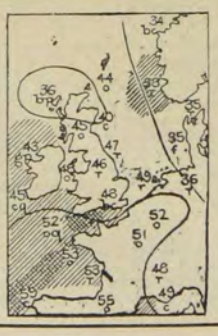












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 21.

Weather fair in E. and S., but rather cloudy elsewhere, with showers at Aberdeen and Pembroke. Cloud and rain subsequently setting in generally.

Temperature fallen S., risen N.; readings ranging from 49° at Valencia to 33° at Cambridge.

Wind north-westerly or northerly generally; moderate or fresh in force, excepting in S.W. where fresh gale reported. Subsequently backing to W. or S.W., in W. and N.

Sea high at Scilly, moderate or slight elsewhere.

Barometer rising generally, and now highest off the W. of Ireland. New fall setting in in W. and N. later, and depression appearing off our N.W. coasts.

Wednesday, November 22.

Weather cloudy in most places, with rain in the N.W. and mist or fog in the N.E. Rain subsequently extending to all but our extreme south-eastern stations.

Temperature risen quickly generally; readings ranging from 53° in the W. to 38° at Nairn. Maxima below 45° in the extreme N. of Scotland, but as high as 55° in the S. of Ireland and at Cambridge.

Wind westerly in our Islands, north-westerly in the Bay of Biscay, and southerly on the eastern shores of the North Sea. Moderate in E., but strong to a slight gale in W. and S.W.

Sea high at Liverpool, rough in the W. and S.W. generally.

Barometer rising in S. of France, falling elsewhere. Highest readings now over S.W. of France, and rather deep depression found to northward of Scotland. Disturbance moving south-eastwards later, and barometer rising again in N.

Thursday, November 23.

Weather cloudy or overcast, with rain in Scotland, the N. of Ireland, and S.W. of France. Rain falling in all places later.

Temperature risen slightly; readings ranging from 54° in the S. of Ireland to 37° at Wick. Maxima rather high for time of year.

Wind northerly or north-easterly in Denmark and calm in Scotland, but westerly or south-westerly over our Islands and France. Blowing freshly or strongly on our S.W. coasts.

Sea rather rough in the S.W. and S.

Barometer again falling generally. Depression of previous day now found over Germany, but new area of very low readings appearing in Scotland and travelling slowly eastwards.

Friday, November 24.

Weather fair in the N. of Scotland and S.E. of England, cloudy elsewhere, with rain in the E. of England. Showers of hail or rain subsequently falling generally.

Temperature fallen generally—several degrees in the W.; readings ranging from 52° at Scilly to 36° at Stornoway.

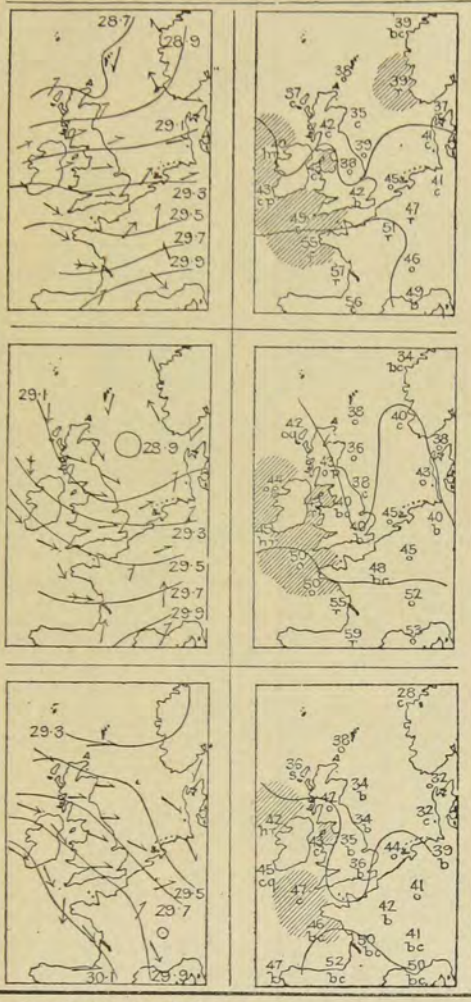
Wind south-easterly in Norway and Denmark, westerly or south-westerly elsewhere; light in E., strong in W. and S. Increasing to moderate or fresh gale at several western stations later.

Sea rough in the W. and S.

Barometer falling at all but Swedish stations. Large area of very low readings lying off W. coast of Norway in morning, and fresh one appearing off our N.W. coasts in evening.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 25.

Weather fine in the S.E. of England, cloudy and unsettled elsewhere, with showers of rain or hail in some places. Aurora seen in the N. of Scotland in evening.

Temperature fallen generally; readings ranging from 51° at Jersey to 35° at Nairn and Aberdeen.

Wind easterly in the northern parts of Scandinavia, generally westerly elsewhere. Strong in force at some western and southern stations.

Sea rough in the W. and S.W.

Barometer falling in all places. Large area of very low readings lying off N. of Scotland and subsidiary depression appearing over the W. of that country in evening.

Sunday, November 26.

Weather fine in the S. of England, still cloudy and showery elsewhere. Showers of hail, cold rain or sleet subsequently falling in all parts of the country.

Temperature risen slightly; readings ranging from 50° at Scilly to 33° at Wick. Maxima rather low.

Wind easterly in northern parts of Scandinavia, generally westerly elsewhere but veering to N. at Stornoway and Mullaghmore. Strong in force on many exposed parts of the coast. Subsequently veering to N.W. or N. generally.

Sea rough on our W. and S. coasts.

Barometer falling S. of France, rising elsewhere. Subsidiary depression reported off W. of Scotland on previous evening now over North Sea and travelling south-eastwards. Pressure becoming highest to westward of us.

Monday, November 27.

Weather fine except in extreme W. and N.W., where cloudy, with showers of hail or sleet. Snow falling in Scotland later.

Temperature fallen generally; readings ranging from 47° at Scilly to 32° at Nairn.

Wind north-westerly or northerly; moderate in N. and E., but still strong at several of the more western stations. Subsequently blowing fresh or strong gale from N.W. on most northern coasts.

Sea rough off our N.W. and S.W. coasts.

Barometer rising generally in morning and depression shown on previous day passing away over N. Germany, but new disturbance appearing off N.E. of Scotland later and barometer consequently falling in N.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	44	33	42·3	34·9	38·6	−2·7	7	1·11	+0·48	*	*
	Stornoway	47	30	43·3	34·7	39·0	−1·9	7	1·50	+0·49	6	12
	Wick	45	26	40·6	31·1	35·9	−4·7	5	1·56	+0·79	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	44	52·1	46·7	49·4	+1·0	6	0·77	−0·14	*	*
	Jersey (Noirmont)	55	42	52·3	45·1	48·7	+3·3	7	1·69	+0·98	19	32

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	44	30	41·1	34·7	37·9	− 1·8	7	0·98	+0·47	*	*
	Aberdeen	46	27	41·4	33·4	37·4	− 2·2	6	1·98	+1·28	8	16
	Leith	54	33	45·6	37·0	41·3	+ 1·4	5	0·65	+0·20	*	*
2. ENGLAND, N.E.	Alnwick Castle	53	33	45·7	38·0	41·9	+ 1·8	7	0·72	?	*	*
	Shields	54	32	47·0	38·0	42·5	+ 1·4	6	0·43	−0·26	*	*
	Durham	54	33	46·6	36·3	41·5	+ 1·5	7	0·27	−0·43	19	36
	Scarborough ℳ	54	35	46·0	38·4	42·2	+ 1·7	6	0·73	−0·07	*	*
	York	54	30	49·4	37·7	43·6	+ 2·9	6	0·58	+0·03	15	27
	Spurn Head	52	36	46·4	39·1	42·8	+ 1·6	6	0·66	?	*	*
3. ENGLAND, E.	Hillington ℳ	54	32	46·9	38·0	42·5	+ 1·4	5	0·60	+0·02	7	13
	Yarmouth	54	30	46·9	37·6	42·3	+ 0·7	6	0·57	−0·23	*	*
	Geldeston	57	31	49·0	39·2	44·1	+ 2·4	6	0·60	0·00	22	39
	Cambridge	55	31	49·9	37·1	43·5	+ 2·7	4	0·16	−0·24	19	33
	Rothamsted	55	33	49·2	38·4	43·8	+ 3·6	6	0·42	−0·02	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	32	49·1	36·4	42·8	+ 1·4	6	0·60	+0·09	*	*
	Loughborough	56	32	49·6	38·6	44·1	+ 3·9	6	0·73	+0·25	*	*
	Leicester	55	33	48·0	38·6	43·3	+ 3·4	7	0·55	+0·07	16	29
	Birmingham (Oscott)	55	31	48·2	37·2	42·7	+ 3·1	6	0·93	+0·39	*	*
	Cheadle ℳ	55	31	46·5	36·0	41·3	+ 1·3	7	1·49	?	*	*
	Churchstoke ℳ	58	31	48·4	37·3	42·9	+ 2·9	7	1·27	?	10	18
	Hereford ℳ	60	34	51·0	38·5	44·8	+ 4·0	6	0·48	−0·13	*	*
	Cirencester	53	33	48·4	37·7	43·1	+ 2·7	3	0·74	+0·14	19	33
	Oxford	55	35	50·0	40·3	45·2	+ 4·3	5	0·42	+0·02	18	32
5. ENGLAND, S.	London†	55	34	50·4	39·9	45·2	+ 3·6	6	0·51	+0·09	13	22
	Marlborough ℳ	53	32	47·9	38·6	43·3	+ 3·0	6	0·90	+0·30	20	34
	Strathfield Turgiss ℳ	56	33	49·9	39·6	44·8	+ 3·6	5	0·39	−0·08	*	*
	Dover	56	36	50·1	41·3	45·7	+ 2·3	4	0·62	−0·28	*	*
	Hastings (St. Leonard's)	53	35	49·4	41·7	45·6	+ 2·2	6	0·70	+0·09	24	41
	Southampton	57	35	51·0	42·2	46·6	+ 4·6	6	0·73	?	24	41
	Hurst Castle	54	36	51·1	42·6	46·9	+ 3·1	4	0·72	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	52	32	46·0	36·0	41·0	− 0·5	7	4·29	?	*	*
	Glasgow	52	33	45·5	36·4	41·0	+ 1·1	7	1·71	+0·82	3	6
	Ardrossan	54	35	48·6	39·4	44·0	+ 2·9	7	1·23	+0·33	*	*
	Silloth (Cumberland)	51	34	45·5	39·1	42·3	+ 1·3	5	0·58	−0·02	5	9
	Douglas (Isle of Man)	53	35	47·6	39·6	43·6	+ 1·4	7	1·94	+0·94	9	16
7. ENGLAND, N.W.	Barrow-in-Furness	51	37	47·7	41·9	44·8	+ 2·1	7	1·57	?	*	*
	Stonyhurst	53	34	48·2	39·3	43·8	+ 3·1	7	2·88	+1·77	6	11
	Blackpool ℳ	51	34	47·8	40·3	44·1	+ 1·0	7	1·57	+0·87	6	11
	Manchester	54	32	46·2	36·3	41·3	0·0	7	1·53	+0·73	*	*
	Liverpool Obsy (Bidston)	55	37	47·9	40·9	44·4	+ 1·8	7	1·67	+1·17	*	*
	Llandudno ℳ	55	38	48·6	42·2	45·4	+ 1·3	7	0·95	+0·15	6	11
	Holyhead	54	40	49·3	43·3	46·3	+ 1·0	7	1·05	+0·38	*	*
8. ENGLAND, S.W.	Pembroke	54	43	50·4	46·3	48·4	+ 3·8	5	1·25	+0·37	13	23
	Arlington (N. Devon)	52	36	48·6	40·7	44·7	+ 2·6	7	2·89	?	*	*
	Cullompton ℳ	55	36	50·2	41·6	46·3	+ 3·7	7	1·02	?	17	29
	Falmouth	54	41	51·2	46·4	48·8	+ 3·2	7	1·41	+0·23	21	36
	Plymouth	55	37	51·8	42·5	47·2	+ 2·3	6	0·73	−0·07	16	28
	Prawle Point	54	37	50·9	42·3	46·6	+ 1·8	7	1·31	?	*	*
9. IRELAND, N.	Londonderry	55	35	52·7	38·9	45·8	+ 3·8	7	2·51	+1·71	*	*
	Mullaghmore	52	39	48·1	41·9	45·0	+ 2·3	7	2·25	?	*	*
	Markree Castle	54	33	48·8	39·2	44·0	+ 2·1	7	1·08	+0·31	8	15
	Brookeborough	52	34	46·7	38·3	42·5	+ 1·6	7	1·96	?	*	*
	Armagh	52	34	46·7	37·9	42·3	+ 0·7	6	1·55	+0·95	11	20
	Donaghadee	54	35	47·6	38·9	43·3	+ 0·8	7	1·08	?	*	*
10. IRELAND, S.	Dublin	55	34	48·3	39·8	44·1	+ 1·1	6	0·58	−0·03	14	25
	Parsonstown	53	35	47·7	38·7	43·2	+ 1·6	7	1·00	+0·40	11	20
	Waterford	55	34	49·1	39·0	44·1	0·0	6	0·63	−0·31	*	*
	Roche's Point	55	37	50·7	41·0	45·9	+ 1·0	4	0·72	−0·45	*	*
	Valencia	55	40	51·7	43·7	47·7	+ 1·0	7	1·18	−0·02	13	23
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, DECEMBER 4, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	46	26	41	32	36	3 below.	5	9	4 more.	7	15
	2. ENGLAND, N.E.	44	23	40	32	36	4 below.	6	8	1 more.	8	16
	3. ENGLAND, E.	51	23	42	31	36	4 below.	6	9	3 more.	9	17
	4. MID. COUNTIES	52	24	43	31	37	3 below.	5	9	3 more.	11	20
	5. ENGLAND, S.	52	24	45	33	39	2 below.	5	7	1 more.	17	31
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	48	26	43	35	39	2 below.	5	17	7 more.	6	12
	7. ENGLAND, N.W.	49	23	44	36	40	2 below.	5	10	2 more.	10	18
	8. ENGLAND, S.W.	55	28	48	39	44	0 (average).	6	18	9 more.	11	20
	9. IRELAND, N.	56	26	45	35	40	1 below.	7	11	4 more.	9	16
	10. IRELAND, S.	54	28	48	36	42	1 below.	6	12	3 more.	10	18

General Remarks.

Weather has again been dull and unsettled in all parts of the Kingdom, and showers of snow, hail, sleet, or rain very frequent.

Temperature has been considerably lower than during last week, the values being below the mean in all districts except "England, S.W."; in the E. and N.E. of England the deficit has been as much as 4°. The maxima were usually low, and varied from 44° in "England, N.E." to 56° in "Ireland, N." On December 1st, the thermometer did not rise above 35° in London, while at Loughborough and Cambridge the highest reading recorded was only 31°. The minima were generally registered on December 1st or 2nd, and ranged from 23° in "England, E.", "England, N.E.", and "England, N.W.", to 28° in "England, S.W." and "Ireland, S."

Rainfall has been more than the mean in all districts, the excess in the W. of Scotland and S.W. of England being rather large.

Bright sunshine percentages show a further decrease almost everywhere, ranging from 12 in "Scotland, W." to 31 in "England, S."

Depressions observed.—Barometric pressure over our Islands has again been subject to considerable fluctuations, while the direction of the wind has generally varied from S.S.W. to W. and N.N.W. Several depressions have appeared from the westward or north-westward and traversed our Islands in a south-easterly direction, giving us strong south-westerly winds or gales as they approached, and north-westerly gales or strong squally winds as they disappeared over the North Sea or Germany. The steepest gradients were on the 2nd and 4th, the former in the N.W. for south-westerly winds, and the latter in the N.E. for south-easterly winds.

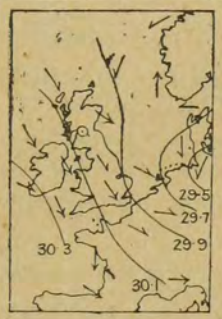
R 4516. 470.—12/82. Wt. 233. E. & S.

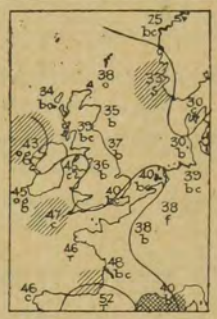
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending December 4, 1882.

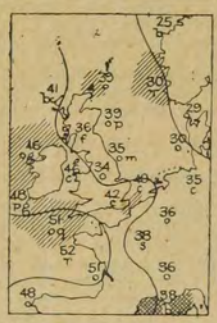
Synoptic Weather Charts.—8 a.m.

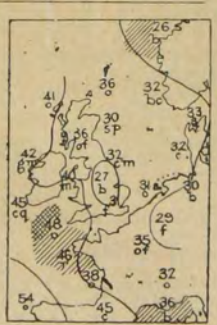
BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 28.

Weather overcast in the W. of Ireland, fine and bright most other districts. Cloud subsequently extending to all but eastern stations, and rain falling in the W.

Temperature risen slightly our Islands, fallen Continent; readings ranging from 47° at Scilly to 33° at Nairn. Maxima below 40° in some parts of Scotland.

Wind generally north-westerly or northerly, and fresh or strong in force. Subsequently falling moderate, and backing to S.W. and S. in W. and N.

Sea rough on exposed parts of our western coasts.

Barometer rising generally. Depression of previous evening now shown over N. Germany, and area of high pressure lying off our S.W. coasts. New disturbance subsequently appearing in W., and fresh fall of barometer setting in.

Wednesday, November 29.

Weather cloudy, showery, and changeable in all districts, with fog in the S. of Scotland and snow at Paris. Sky clearing somewhat in W. later, but showers still falling at intervals.

Temperature risen slightly our Islands, fallen Scandinavia; readings ranging from 51° at Scilly to 34° at York. Maxima higher than on previous day.

Wind southerly on our N. and E. coasts, but north-westerly in W. and S.W.; strong in force in W. Subsequently shifting to N.W. generally and blowing gale in N.W.

Sea rough in the extreme W. and S.W.

Barometer falling generally in our Islands, but rising eastern shores of North Sea. Large depression shown over N. of Scotland and small subsidiary disturbance near the Wash. Both disturbances moving south-eastwards later, and barometer rising in W. and N.

Thursday, November 30.

Weather cloudy generally, with snow in Norway. Sky clearing somewhat in many places later.

Temperature risen Scandinavia, fallen elsewhere; readings ranging from 45° at Holyhead, Pembroke, and Scilly to 30° at Parsonstown.

Wind south-easterly in Norway and Denmark, northerly in our Islands and France. Light or moderate generally, but strong in Bay of Biscay. Subsequently shifting to S.E. on our western coasts.

Sea rather rough at some western stations, slight or smooth elsewhere.

Barometer rising at all but French stations, and depressions of previous day now shown respectively over southern portion of North Sea and N.E. of France. New depression appearing in W. later, and barometer falling again.

Friday, December 1.

Weather cloudy in W. and N., and rainy in S.W., foggy at central and south-eastern stations. Sky clearing in Ireland later, but fog continuing in S.E. of England.

Temperature risen W. and N.W., fallen quickly elsewhere; readings ranging from 48° at Scilly to 25° at Loughborough. In some parts of central England thermometer not rising above 31° all day.

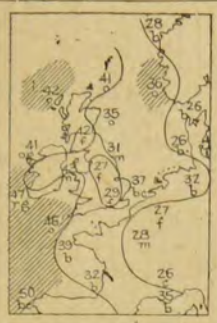
Wind light south-easterly in N.W., and calm or very variable in N. and E., but southerly in S.W. and moderate northerly in S. Ireland. Subsequently rising to strong gale from N.W. at Scilly.

Sea high at Scilly, moderate to smooth elsewhere.

Barometer falling except in N. of Norway, and small depression shown near Scilly. Rise taking place in W. later but depression not moving much.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.



Saturday, December 2.

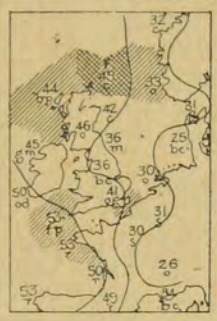
Weather misty or foggy over central and south-eastern England; cloudy elsewhere, with rain at Valencia. Fog subsequently clearing off, and dull rainy weather becoming general.

Temperature changed irregularly; readings ranging from 47° at Valencia to 24° at Oxford. Brisk rise taking place over England later.

Wind easterly or south-easterly at the southern and Continental stations, southerly on our western and northern coasts. Blowing strongly in extreme W. Fresh or strong gale from S. or S.W. in Ireland and Scotland during afternoon and evening.

Sea rough at many western and north-western stations.

Barometer rising over England and the Continent, falling briskly Ireland and Scotland. Readings highest Sweden, and rather deep depression skirting our western and northern coasts in course of day.



Sunday, December 3.

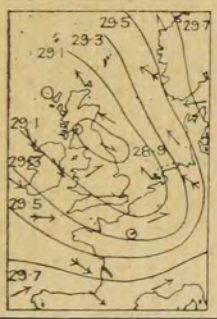
Weather cloudy or overcast generally, with rain in many places, and snow at Paris. Slight improvement taking place in W. later.

Temperature fallen W. and N., risen elsewhere; readings ranging from 53° at Scilly to 39° at Stornoway. Maxima higher than of late.

Wind south-westerly or southerly in our Islands, but south-easterly on eastern shores of North Sea. Moderate or fresh in force at most stations.

Sea high at Sumburgh Head, rough on many exposed parts of our coasts.

Barometer falling generally. Readings still highest in Sweden, and depression of previous day now shown off the N.W. of Scotland. Subsidiary disturbance appearing over England in evening.



Monday, December 4.

Weather fine in the S.E. of England, cloudy elsewhere, with snow at Ardrossan, hail at Valencia and Wick, and rain at several western stations. Heavy squalls of snow and sleet in Scotland later.

Temperature fallen generally; readings ranging from 47° at Scilly to 33° at Stornoway. Maxima lower than on previous day.

Wind strong to a gale from S.E. in the N. of Scotland, fresh or strong north-westerly on our western coasts, and moderate westerly in S.E. Subsequently rising to strong gale in E. of Scotland.

Sea high off the N.E. of Scotland, rough on all but our S.E. coasts.

Barometer falling at all but the extreme northern stations, and depression of Saturday and Sunday now shown off the coast of Berwickshire. Disturbance continuing to move south-eastward during day, but barometer beginning to rise generally.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	46	32	40·9	34·3	37·6	−3·9	4	1·30	+0·60	*	*
	Stornoway	45	31	42·9	33·7	38·3	−2·2	6	0·98	−0·13	10	21
	Wick	45	32	42·1	34·0	38·1	−2·1	6	0·79	+0·04	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	40	50·4	43·7	47·1	−0·9	7	1·94	+1·04	*	*
	Jersey (Noirmont)	52	35	47·7	40·3	44·3	−0·6	6	2·05	+1·35	14	24

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	44	28	39·0	31·4	35·2	− 4·0	3	0·24	−0·26	*	*
	Aberdeen	45	27	40·4	31·4	35·9	− 3·1	6	1·61	+0·91	7	15
	Leith	46	26	42·1	31·6	36·9	− 2·5	5	0·81	+0·39	*	*
2. ENGLAND, N.E.	Alnwick Castle	41	23	38·6	30·3	34·5	− 5·0	6	1·05	?	*	*
	Shields	44	28	40·4	31·3	35·9	− 4·3	6	0·73	+0·03	*	*
	Durham	41	23	37·9	29·2	33·6	− 5·9	7	0·80	+0·05	8	16
	Scarborough ℔	44	31	41·1	34·7	37·9	− 1·8	7	0·80	+0·01		
	York	44	26	40·0	30·0	35·0	− 5·1	5	0·48	−0·11		
	Spurn Head	44	32	41·4	34·7	38·1	− 2·3	6	0·73	?	*	*
3. ENGLAND, E.	Hillington ℔	45	27	40·0	30·8	35·4	− 4·7	5	0·56	−0·04	3	6
	Yarmouth	43	30	40·9	33·0	37·0	− 3·9	7	1·66	+0·86	*	*
	Geldeston	49	28	42·6	32·0	37·3	− 3·7	7	1·20	+0·60	12	22
	Cambridge	51	25	42·0	30·0	36·0	− 4·2	5	0·32	−0·11	12	22
	Rothamsted	50	23	42·6	29·1	35·9	− 3·7	6	0·52	+0·05	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	43	25	40·0	30·6	35·3	− 5·5	5	0·64	+0·09	*	*
	Loughborough	48	24	42·4	30·9	36·7	− 2·9	5	1·05	+0·56	*	*
	Leicester	48	25	43·0	30·8	36·9	− 2·4	5	1·23	+0·74	6	11
	Birmingham (Oscott)	47	27	41·2	31·5	36·4	− 2·6	5	0·74	+0·17	*	*
	Cheadle ℔	44	26	41·1	31·0	36·1	− 3·1	5	1·76	?	*	*
	Churchstoke ℔											
	Hereford ℔	52	28	44·7	34·3	39·5	− 0·7	6	0·32	−0·33	*	*
	Cirencester	50	24	43·6	30·7	37·2	− 2·8	5	0·85	+0·23	14	25
	Oxford	51	24	44·0	31·9	38·0	− 2·0	5	0·38	−0·02	13	24
5. ENGLAND, S.	London†	51	28	43·7	33·0	38·4	− 2·6	4	0·38	−0·07	14	25
	Marlborough ℔	50	24	43·5	30·6	37·1	− 2·1	5	0·93	+0·31	13	23
	Strathfield Turgiss ℔	51	25	43·6	30·3	37·0	− 3·0	5	0·55	+0·09	*	*
	Dover	49	31	43·9	35·3	39·6	− 3·3	5	0·53	−0·35	*	*
	Hastings (St. Leonard's)	50	27	45·7	33·7	39·7	− 3·1	5	0·80	+0·20	21	38
	Southampton	52	26	47·4	33·3	40·4	− 1·0	5	0·81	?	20	36
	Hurst Castle	51	28	48·0	36·3	42·2	− 1·0	4	0·82	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	48	29	42·8	34·6	38·7	− 2·4	5	2·59	?	*	*
	Glasgow	45	32	41·2	33·6	37·4	− 2·2	5	1·19	+0·28	0	0
	Ardrossan	48	32	43·1	34·4	38·8	− 0·8	6	1·78	+0·89	*	*
	Silloth (Cumberland)	46	26	41·5	32·8	37·2	− 3·3	5	1·19	+0·57	10	20
	Douglas (Isle of Man)	47	37	44·8	39·1	42·0	+ 0·1	6	1·94	+0·93	9	17
7. ENGLAND, N.W.	Barrow-in-Furness	48	31	44·3	36·4	40·4	− 1·8	5	1·10	?	*	*
	Stonyhurst	47	23	43·1	31·0	37·1	− 3·1	5	1·12	+0·01	9	17
	Blackpool ℔	47	26	43·8	33·5	38·7	− 3·8	5	0·57	−0·14	10	19
	Manchester										*	*
	Liverpool Obsy (Bidston)	46	32	43·4	36·0	39·7	− 2·4	5	0·82	+0·37	*	*
	Llandudno ℔	48	35	45·1	38·3	41·7	− 1·9	3	0·41	−0·39		
	Holyhead	49	38	46·9	41·3	44·1	− 0·8	6	1·69	+0·96	*	*
8. ENGLAND, S.W.	Pembroke	51	40	48·3	42·7	45·5	+ 1·4	6	2·23	+1·35	12	22
	Arlington (N. Devon)	50	30	46·3	35·4	40·9	− 0·7	7	2·50	?	*	*
	Cullompton ℔	52	28	46·2	34·9	40·9	− 1·5	7	1·49	?	12	21
	Falmouth	55	40	49·6	43·1	46·4	+ 1·2	7	2·42	+1·32	9	16
	Plymouth	53	33	49·0	38·0	43·5	− 0·7	6	1·30	+0·50	11	19
	Prawle Point	52	36	48·6	39·0	43·8	− 0·5	5	1·06	?	*	*
9. IRELAND, N.	Londonderry	56	32	47·9	35·5	41·7	+ 0·2	7	1·70	+0·90	*	*
	Mullaghmore	49	35	46·6	38·4	42·5	+ 0·1	7	1·38	?	*	*
	Markree Castle	49	27	46·4	34·1	40·3	− 1·3	7	0·72	+0·01	6	11
	Brookeborough	46	26	43·1	32·7	37·9	− 2·7	7	0·83	?	*	*
	Armagh	46	30	43·3	34·4	38·9	− 2·2	6	0·71	+0·11	11	21
	Donaghadee	48	34	44·3	36·0	40·2	− 2·0	6	1·47	?	*	*
10. IRELAND, S.	Dublin	48	34	45·5	37·2	41·4	− 1·1	6	0·47	−0·12	11	20
	Parsonstown	50	28	45·0	32·4	38·7	− 2·4	5	1·14	+0·52	11	20
	Waterford										*	*
	Roche's Point	53	34	49·1	37·1	43·1	− 1·2	6	2·06	+0·86	*	*
	Valencia	54	34	51·1	40·0	45·6	− 0·7	7	2·05	+0·84	8	15
	Foynes	51	32	46·7	35·2	41·0	− 1·6	7	1·38	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, DECEMBER 11, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	39	10	35	26	30	8 below.	6	19	14 more.	2	4
	2. ENGLAND, N.E.	42	14	36	30	33	6 below.	5	22	15 more.	5	9
	3. ENGLAND, E.	41	13	37	29	33	7 below.	4	10	4 more.	5	9
	4. MID. COUNTIES	42	13	34	27	30	9 below.	4	8	2 more.	6	11
	5. ENGLAND, S.	44	12	36	29	33	8 below.	4	6	0 (average).	6	10
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	41	18	35	28	31	9 below.	2	1	8 less.	16	31
	7. ENGLAND, N.W.	41	20	36	30	33	8 below.	2	3	5 less.	7	13
	8. ENGLAND, S.W.	45	16	39	30	34	9 below.	4	4	5 less.	23	42
	9. IRELAND, N.	48	13	36	25	31	11 below.	2	1	6 less.	19	37
	10. IRELAND, S.	46	12	36	27	32	11 below.	2	4	6 less.	18	33

General Remarks.

Weather has been very unsettled and wintry, with heavy snowstorms in most districts. Lightning was seen in the N. of Scotland towards the end of the week and a thunderstorm occurred at Shields on the 9th.

Temperature has been exceptionably low everywhere, the deficit ranging from 6° in "England, N.E." to 11° in "Ireland, N.", and 11° in "Ireland, S." The maxima were registered at the commencement of the period, and varied from 39° in the E. of Scotland to 48° in the S. of Ireland. The minima were extremely low in all parts of the Kingdom. The lowest reading of all (10° at Nairn) was recorded on the 8th, but in nearly all other places the thermometer was lowest on the 11th, when it fell to 12° or 13° in Ireland and over central, southern, and eastern England, and to between 14° and 20° elsewhere. In some parts of central England the thermometer did not rise above 22° or 23° all day.

Rainfall has been more than the mean in nearly all the "Wheat-producing Districts,", but considerably less in the "Grazing Districts." In "Scotland, E." and "England, N.E." the excess was large.

Bright sunshine varied in amount from 42 °/₀ in "England, S.W." and 37 °/₀ in "Ireland, N.", to only 4 °/₀ in "Scotland, E." and 10 °/₀ in "England, S."

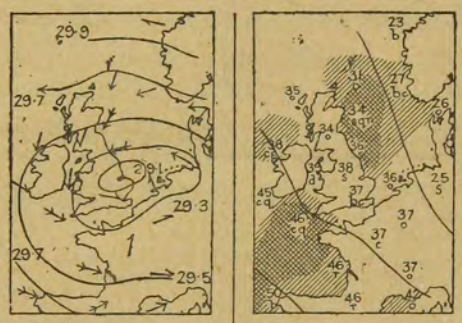
Depressions observed.—During the first part of this period the weather was influenced by a depression which travelled down our E. coast in a south-easterly direction until it reached a position between the Helder and Yarmouth, when it moved westwards and finally dispersed. During the latter part of the period a depression which had arrived from the south-westward moved slowly in a north-easterly or east-north-easterly direction up the Channel, and afterwards in a northerly direction outside our E. coast. The winds until the 8th were generally fresh or strong from the north-eastward or northward, with gales on our northern and eastern coasts, but after that date they were light and more variable, and at the end of the week calms or very light airs were reported from all parts of the country.

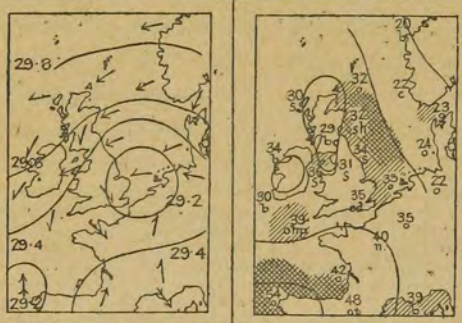
R 4606. 470.—12/82. Wt. 233. E. & S.

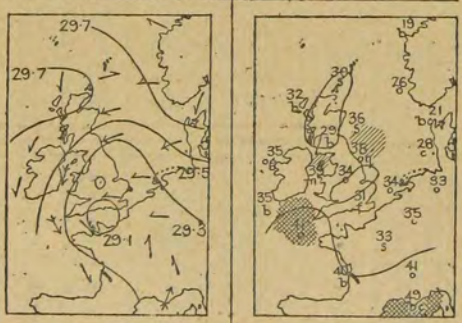
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending December 11, 1882.

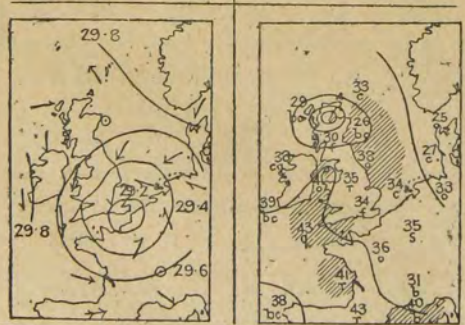
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 5.

Weather fair in the S.E. of England, cloudy and unsettled elsewhere, with snow in the E. of Scotland and N.E. of England, hail at Jersey, and rain in the S.W. of France. Sky clearing somewhat in W. and N. later.

Temperature fallen generally; readings ranging from 46° at Scilly to 31° at Sumburgh Head and Nairn.

Wind strong to a gale from E. and N.E. in the S. of Norway and northern parts of our Islands, and from N.W. on our S.W. coasts, but light westerly in the S.E.

Sea very high on our N.E. coasts, and high at the mouth of the Channel.

Barometer rising quickly N. and W., falling a little S. Depression of Sunday and Monday now off the Wash, and continuing to move south-eastwards. Rise of barometer becoming general later.

Wednesday, December 6.

Weather fine in Ireland, cloudy elsewhere, with much snow in Scotland, Wales, and the northern and central parts of England. Snow ceasing later, but sky continuing cloudy.

Temperature again fallen generally; readings ranging from 39° at Scilly to 25° at Nairn and Parsonstown. Maxima low everywhere; only 30° at Nairn.

Wind north-easterly or northerly at all but French stations; light or moderate in force in S., strong in N. Backing to W. in S.E. of England later.

Sea high in N.E., rough in E. and some parts of W.

Barometer falling over Bay of Biscay, and also on our western and northern coasts; rising elsewhere. Depression of previous day now between the coasts of Norfolk and Holland in morning, but moving westward to Lincolnshire later.

Thursday, December 7.

Weather fair in W., cloudy and unsettled elsewhere, with snow in the E. of Scotland as well as at Loughborough and Hurst Castle. Snow or sleet subsequently falling at almost all British stations.

Temperature changed irregularly, but still low; readings ranging from 41° at Scilly to 26° at Wick. Maximum only 35° at some English stations.

Wind easterly in E., north-easterly or northerly in W. Blowing moderate or fresh gale at some northern and western stations as well as in Bay of Biscay.

Sea high at Scilly, rough on our N.E. and N.W. coasts.

Barometer falling generally. Depression of previous few days quite disappeared, but new one advancing from south-westward to Channel, and subsequently travelling eastwards. Rise taking place in many districts later.

Friday, December 8.

Weather fine W. and N., cloudy and unsettled elsewhere, with rain in many places and snow over central England. No important change later.

Temperature risen generally, but fallen quickly some parts Scotland; readings ranging from 43° at Scilly to 10° at Nairn. Maxima rather higher than on previous day, excepting at Nairn, where highest reading only 26°.

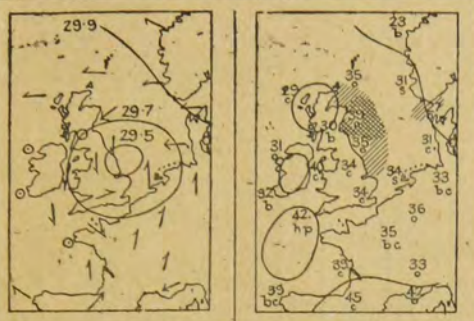
Wind westerly and south-westerly in France, north-easterly or northerly in England and Ireland, calm or light westerly in Scotland. Still blowing rather strongly in N.E. and N.W.

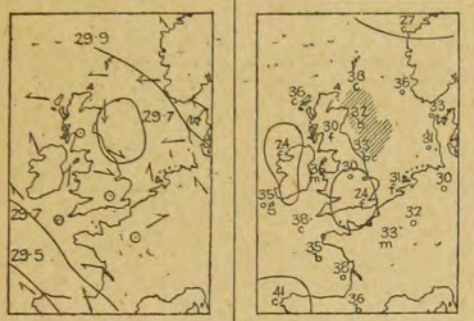
Sea rough on the eastern and some parts of the western coasts.

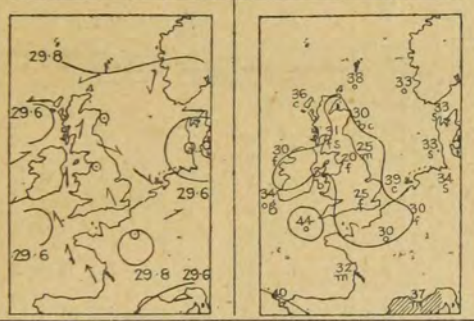
Barometer risen generally. Depression of Thursday near the Straits of Dover in morning, and afterwards moving slowly north-eastwards.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 9.

Weather fine in W., cloudy elsewhere, with snow showers at Wick and Leith. Rain or sleet subsequently falling at many eastern stations.

Temperature falling a little at all but extreme northern stations; readings ranging from 42° at Scilly to 26° at Nairn.

Wind strong easterly in extreme N., light or moderate northerly or north-westerly at more northern stations, and southerly over the Netherlands.

Sea high at Aberdeen, rough on our E. coasts generally.

Barometer still rising generally, and depression now off the E. coast of England. Slight fall taking place in W. later.

Sunday, December 10.

Weather foggy over England and Ireland, cloudy elsewhere, with snow at Nairn. Snow and rain subsequently falling in the E. of Scotland generally, with a thunderstorm at Wick.

Temperature fallen briskly except N., and very low generally; readings ranging from 38° at Scilly to 24° at Mullaghmore, London, and Oxford, and 22° at Parsonstown. Maximum in London only 27°.

Wind easterly in extreme N. and S.W., calms and variable airs elsewhere. Little change later.

Sea rough on our N.E. coasts, slight or smooth elsewhere.

Barometer rising Scandinavia and Denmark, falling elsewhere. Depression of previous three days now off our N.E. coasts, but readings over England and Ireland very uniform.

Monday, December 11.

Weather still foggy over England and the S. of Scotland, cloudy and unsettled elsewhere, with snow in Denmark.

Temperature again fallen; readings ranging from 44° at Scilly to 21° at Loughborough and Mullaghmore, and 20° at Oxford. Maxima very low; only 22° at York and 23° at Loughborough.

Wind again easterly in extreme N. and S.W., variable breezes elsewhere.

Sea moderate or smooth on all our coasts.

Barometer rising France and the E. and S. of England, falling elsewhere. Recent depression quite disappeared, but three new disturbances shown:—one off the W. of Scotland, a second over Denmark, and a third off our S.W. coasts.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	39	25	35·9	29·1	32·5	−8·1	5	0·53	−0·18	*	*
	Stornoway	40	21	36·7	27·1	31·9	−8·1	4	0·36	−0·89	17	37
	Wick	40	21	35·9	29·1	32·5	−7·2	6	1·17	+0·42	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	46	34	44·0	36·7	40·4	−7·0	6	1·69	+0·79	*	*
	Jersey (Noirmont)	45	30	40·1	33·9	37·0	−6·9	6	1·35	+0·62	9	16

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°			Inches.	Inches.		
1. SCOTLAND, E.	Nairn	37	10	31·3	21·1	26·2	−12·4	5	1·98	+1·51	*	*
	Aberdeen	39	21	36·7	27·6	32·2	− 6·1	6	2·16	+1·46	2	4
	Leith	39	23	36·6	28·6	32·6	− 6·2	6	1·64	+1·24	*	*
2. ENGLAND, N.E.	Alnwick Castle	38	17	35·1	28·1	31·6	− 7·2	5	2·67	?	*	*
	Shields	40	22	36·9	30·6	33·8	− 6·0	5	1·45	+0·75	*	*
	Durham	37	14	34·7	27·3	31·0	− 7·8	5	2·34	+1·59	8	16
	Scarborough ℳ	42	22	38·2	32·2	35·2	− 3·7	5	2·03	+1·28	*	*
	York	39	19	34·3	29·1	31·7	− 7·6	5	2·69	+2·09	1	2
	Spurn Head	42	27	38·1	33·0	35·6	− 3·7	4	1·86	?	*	*
3. ENGLAND, E.	Hillington ℳ	40	23	37·1	30·4	33·8	− 5·3	3	1·15	+0·54	2	4
	Yarmouth	40	27	37·0	31·6	34·3	− 5·7	4	1·32	+0·52	*	*
	Geldeston	41	25	38·0	30·6	34·3	− 5·8	5	1·19	+0·59	7	13
	Cambridge	38	20	35·6	27·7	31·7	− 7·8	4	0·63	+0·16	5	9
	Rothamsted	40	13	35·8	25·3	30·6	− 8·2	3	0·59	+0·09	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	42	17	34·4	28·1	31·3	− 8·7	4	1·59	+0·94	*	*
	Loughborough	39	21	34·0	29·0	31·5	− 7·4	4	0·80	+0·29	*	*
	Leicester	39	22	34·4	28·3	31·4	− 7·1	4	0·73	+0·23	1	2
	Birmingham (Oscott)	37	19	33·2	26·6	29·9	− 8·7	4	0·97	+0·37	*	*
	Cheadle ℳ	38	15	33·5	26·9	30·2	− 8·3	4	0·71	?	*	*
	Churchstoke ℳ	39	13	34·6	24·3	29·5	− 9·6	6	0·53	?	9	17
	Hereford ℳ	37	20	33·0	26·8	29·9	− 9·6	5	0·46	−0·23	*	*
	Cirencester	37	13	33·9	25·1	29·5	− 9·9	4	0·67	−0·10	9	17
	Oxford	38	20	34·3	28·4	31·4	− 8·3	4	0·39	−0·01	5	9
5. ENGLAND, S.	London†	39	24	34·9	30·4	32·7	− 7·5	3	0·55	+0·10	1	2
	Marlborough ℳ	38	12	32·9	24·9	28·9	−10·2	4	0·59	−0·06	4	7
	Strathfield Turgiss ℳ	39	18	34·0	27·1	30·6	− 9·1	2	0·40	−0·08	*	*
	Dover	40	28	33·6	32·4	35·5	− 6·6	6	0·74	−0·15	*	*
	Hastings (St. Leonard's)	41	29	36·5	31·2	33·9	− 8·1	5	0·85	+0·25	5	9
	Southampton	40	20	36·2	28·6	32·4	− 7·8	3	0·39	?	12	22
	Hurst Castle	44	22	38·4	30·6	34·5	− 8·0	2	0·50	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	37	23	33·6	25·6	29·6	−11·0	1	0·02	?	*	*
	Glasgow	36	23	33·9	26·6	30·3	− 9·0	1	0·02	−0·97	9	19
	Ardrossan	41	24	36·1	27·3	31·7	− 7·8	2	0·03	−0·86	*	*
	Silloth (Cumberland)	36	18	34·2	28·8	31·5	− 8·3	3	0·08	−0·57	13	26
	Douglas (Isle of Man)	39	25	37·4	29·5	33·5	− 8·1	3	0·09	−0·94	25	48
7. ENGLAND, N.W.	Barrow-in-Furness	40	27	36·7	30·3	33·5	− 8·0	0	—	?	*	*
	Stonyhurst	40	20	36·3	27·6	32·0	− 7·4	3	0·25	0·86	7	13
	Blackpool ℳ	38	21	36·0	29·0	32·5	− 9·3	1	0·01	−0·70	6	12
	Manchester	38	20	34·1	28·1	31·1	− 8·9	3	0·87	+0·10	*	*
	Liverpool Obsy (Bidston)	38	24	35·1	31·3	33·2	− 8·1	1	0·37	−0·05	*	*
	Llandudno ℳ											
	Holyhead	41	31	40·0	34·7	37·4	− 6·9	5	0·30	−0·50	*	*
8. ENGLAND, S.W.	Pembroke	41	31	39·0	32·3	35·7	− 7·9	6	0·46	−0·44	23	43
	Arlington (N. Devon)	38	16	36·0	27·0	31·5	− 9·5	3	0·47	?	*	*
	Cullompton ℳ	41	18	37·4	26·5	32·0	− 9·6	4	0·72	?	16	29
	Falmouth	45	32	41·1	33·8	37·5	− 6·6	5	0·45	−0·57	33	59
	Plymouth	43	23	39·0	28·6	33·8	− 9·7	3	0·08	−0·73	20	36
	Prawle Point	45	28	40·1	30·3	35·2	− 8·3	1	0·03	?	*	*
9. IRELAND, N.	Londonderry	48	18	39·9	24·6	32·3	− 8·7	2	0·02	−0·80	*	*
	Mullaghmore	42	19	38·0	28·6	33·3	− 8·7	1	0·01	?	*	*
	Markree Castle	40	13	35·1	21·0	28·1	−13·1	0	—	−0·71	22	42
	Brookeborough	40	13	32·6	20·8	26·7	−13·5	0	—	?	*	*
	Armagh	40	16	31·4	22·6	27·0	−13·6	3	0·08	−0·53	16	31
	Donaghadee	40	26	38·3	32·4	35·4	− 6·3	5	0·30	?	*	*
10. IRELAND, S.	Dublin	40	15	33·2	25·3	29·3	−12·5	4	0·65	+0·10	8	15
	Parsonstown	37	12	32·1	22·4	27·3	−13·2	0	—	−0·66	16	30
	Waterford										*	*
	Roche's Point	42	25	40·0	?29·1	34·6	− 9·1	2	0·96	−0·25	*	*
	Valencia	46	29	41·6	31·4	36·5	− 9·4	1	0·33	−0·97	29	54
	Foynes	40	17	38·1	25·6	30·4	−11·7	1	0·05	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, DECEMBER 18, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	46	6	35	19	27	11 below.	4	7	2 more.	8	18
	2. ENGLAND, N.E.	46	15	39	32	36	3 below.	7	6	1 less.	0	0
	3. ENGLAND, E.	49	16	42	33	38	1 below.	5	1	5 less.	3	6
	4. MID. COUNTIES	50	10	40	32	36	3 below.	6	6	0 (average).	1	1
	5. ENGLAND, S.	50	16	45	37	41	1 above.	5	2	4 less.	2	4
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	49	15	38	29	33	6 below.	4	4	6 less.	4	8
	7. ENGLAND, N.W.	49	17	40	32	36	5 below.	5	5	3 less.	2	4
	8. ENGLAND, S.W.	52	20	46	38	42	1 below.	6	16	7 more.	1	2
	9. IRELAND, N.	49	13	40	29	34	6 below.	4	4	3 less.	3	5
	10. IRELAND, S.	52	10	41	28	35	8 below.	4	9	1 less.	11	21

General Remarks.

Weather has been generally fine in the N. of Scotland and moderately so in Ireland, but gloomy in all other parts of the country. In many places fog or mist has prevailed, and in the S.W. of England some heavy falls of rain have been experienced.

Temperature has varied greatly in different districts and on different days, but, on the whole, has been below the mean in all districts except "England, S." In England the thermometer was lowest on the first day of the period, when it fell to 10° in the Midland Counties and from 15° to 20° elsewhere. Over Ireland and Scotland the minima were registered on the 15th; in the former country they varied from 10° to 13°, while in Scotland the unusually low point of 6° was reached. During the latter part of the 15th temperature rose very rapidly in the northern and western parts of the Kingdom, and for the last few days of the period maxima varying from 46° to 49° were recorded in Scotland, while at most of the English stations and in Ireland the thermometer rose to between 49° and 52°.

Rainfall has been more than the mean in "Scotland, E." and "England, S.W.", and equal to it in the "Midland Counties", but less in all other districts.

Bright sunshine has been exceedingly deficient at nearly all stations. In "Ireland, S." 21 % has been recorded, and in "Scotland, E." 18 %, but elsewhere the percentages ranged from 8 in "Scotland, W." to 0 in "England, N.E."

Depressions observed.—Pressure during this period was generally highest over Scandinavia and lowest in the south-western and western parts of our area. Several depressions approached our W. and S.W. coasts, but none of importance travelled across our Islands. The wind was consequently south-easterly or easterly in direction, and occasionally blew freshly or strongly in the extreme W. and S.W. Over central and south-eastern England the wind was very light and at times sank to a calm. On the N. and E. coast of Scotland a fresh south-easterly gale was experienced for a few hours on the 17th.

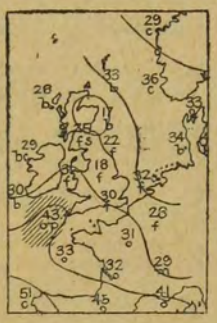
R 4707. 470.—12/82. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending December 18, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 12.

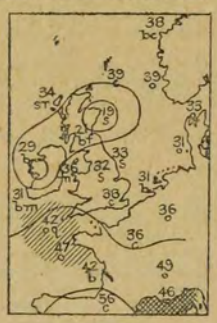
Weather foggy over central and northern England and the S. of Scotland, fine in the N. of Scotland, cloudy elsewhere. Fog dispersing later, and rain falling in S.W. Snow experienced in some northern districts.

Temperature fallen quickly in the N., risen elsewhere; readings ranging from 43° at Scilly to 17° at Nairn and Aberdeen. Maximum at Nairn and Aberdeen only 22°.

Wind fresh or strong from E. and S.E. on our S.W. coasts, light and variable in the N. and E. South-easterly breezes subsequently extending over England.

Sea rather rough in the S.W.

Barometer falling generally. Readings relatively high over central and northern Europe, low off the W. of Norway and N.W. of Spain. Fall proceeding slowly all day.



Wednesday, December 13.

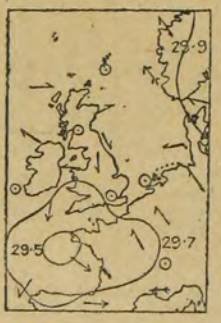
Weather fine in Ireland and the N. of Scotland, cloudy elsewhere, with snow in the N. of England. Heavy rain falling in S.W. later.

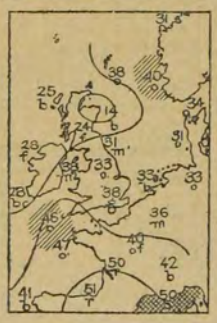
Temperature risen most places — quickly at the English stations. Readings ranging from 42° at Scilly to 18° at Nairn. Maximum at Nairn only 20°.

Wind southerly or south-easterly in France and the S. of England, north-easterly on our western coasts, southerly in the extreme N. Strong in force in S.W.

Sea rough at Scilly, moderate or smooth elsewhere.

Barometer rising over Scandinavia and the N. of Scotland, falling at all southern stations. Low pressure areas of previous day now shown respectively off N.W. of Norway and our S.W. coasts.





Thursday, December 14.

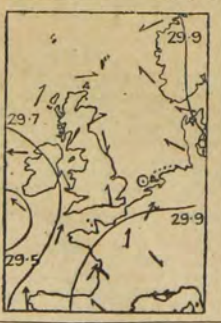
Weather clear in the N. of Scotland and some parts of Ireland, cloudy elsewhere, with fog or mist in many places, and rain at Pembroke and in the S.W. of France. Snow falling in the N. of England later.

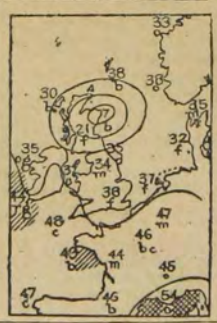
Temperature changed irregularly; readings ranging from 46° at Scilly to 14° at Aberdeen. Maximum at Aberdeen only 20°, at Leith 21°.

Wind strong westerly in S.W. of France, moderate north-easterly on our own southern coasts, calm or light and variable at the more northern stations.

Sea rough at the mouth of the Channel, slight or smooth elsewhere.

Barometer falling S. of Scandinavia, rising elsewhere. Readings highest Sweden, with small depression lying off the N.W. of France. Depression subsequently dispersing.





Friday, December 15.

Weather clear in the N. and E. of Scotland, foggy over England, cloudy elsewhere, with rain at Valencia. Rain subsequently falling at all western stations, and cloud extending to Scotland.

Temperature risen quickly in W., but fallen in N.; readings ranging from 48° at Scilly to only 7° at Aberdeen. Minimum at Aberdeen and Leith as low as 6°. Brisk rise taking place in N. later.

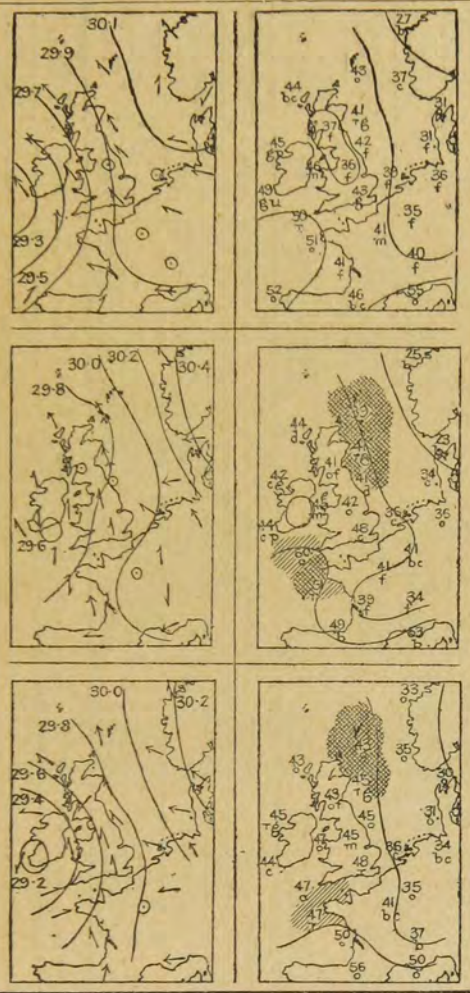
Wind light and variable in E. and N., but fresh or strong south-easterly in the W. of our Islands, and moderate south-westerly over the Bay of Biscay. Southerly breezes setting in over Scotland later.

Sea rough at Valencia, moderate or smooth elsewhere.

Barometer rising over Great Britain and France, but falling in Ireland and Scandinavia. Depression approaching S. of Ireland in morning, and subsequently travelling northwards, but decrease of pressure not extending much.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 16.

Weather still foggy over central and north-eastern England, cloudy elsewhere, with rain in the W. Rain subsequently extending to all western and northern stations.

Temperature risen over our Islands—very rapidly in Scotland; reading at Aberdeen 34° higher than on Friday. 8 a.m. readings varying from 50° at Scilly to 37° at Nairn and 36° at York and Loughborough.

Wind northerly in Sweden, southerly or south-easterly elsewhere; strong in force in W. Rising to moderate gale in E. of Scotland later.

Sea rough in the S.W., moderate or smooth elsewhere.

Barometer falling W. and S.W., rising elsewhere. Readings highest Scandinavia, but rather deep depression shown off S.W. of Ireland. Disturbance moving northward later and occasioning general fall of mercury.

Sunday, December 17.

Weather cloudy or overcast generally, with rain in many places.

Temperature fallen quickly in Ireland and less rapidly at many of the Continental stations, risen slightly elsewhere; readings ranging from 50° at Scilly to 35° at Parsonstown.

Wind easterly in Denmark and the S. of Norway, south-easterly or southerly elsewhere. Strong to a gale in the N. and E. of Scotland, light or moderate at the more southern stations. Gale ceasing late.

Sea very high at Wick, rough on our N.E. and S.W. coasts.

Barometer falling on our N. and N.E. coasts, rising elsewhere. Readings still highest Scandinavia and depression of previous day shown off W. of Scotland, with small subsidiary disturbance near Roche's Point. Fresh and brisk fall of barometer taking place in S.W. in evening.

Monday, December 18.

Weather cloudy or overcast generally, with rain at several stations. Fine in S.E. of England later.

Temperature risen at majority of stations; readings varying from 49° at Oxford to 41° at Nairn and Leith.

Wind south-westerly at mouth of Channel, southerly or south-easterly elsewhere. Moderate or fresh in force in most places, but strong to a gale on eastern shores of North Sea.

Sea high off the N. and N.E. of Scotland, rather rough at the entrance of the Channel.

Barometer falling at all but extreme northern stations. Depression of previous two days quite disappeared, but new disturbance shown over S. of Ireland. Disturbance subsequently filling up and barometer rising generally.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	45	30	41·9	34·3	38·1	−2·1	5	1·46	+0·71	*	*
	Stornoway	46	22	41·3	28·3	34·8	−4·7	7	0·81	−0·57	6	14
	Wick	46	24	40·4	29·6	35·0	−4·2	4	0·53	−0·17	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	39	48·9	43·3	46·1	−1·0	6	3·21	+2·31	*	*
	Jersey (Noirmont)	49	30	46·7	39·4	43·1	−0·4	5	0·45	−0·25	4	7

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	48	10	33·0	19·3	26·2	−11·9	2	0·05	−0·39	*	*
	Aberdeen	46	6	35·3	18·7	27·0	−10·7	6	1·65	+0·97	8	18
	Leith	45	6	35·3	18·7	27·0	−11·3	3	0·29	−0·10	*	*
2. ENGLAND, N.E.	Alnwick Castle	44	18	37·7	29·3	33·5	− 4·7	7	1·03	?	*	*
	Shields	45	19	39·7	29·4	34·6	− 4·6	7	0·63	+0·01	*	*
	Durham	42	15	35·5	29·7	32·6	− 5·7	7	0·70	−0·03	0	0
	Scarborough ℳ	45	19	42·0	35·2	39·0	+ 0·9	6	0·48	−0·24	*	*
	York	46	16	38·6	32·6	35·6	− 3·0	7	0·63	+0·03	?	?
	Spurn Head	45	23	42·1	33·6	37·9	− 0·5	6	0·26	?	*	*
3. ENGLAND, E.	Hillington ℳ	47	20	41·5	34·3	37·9	− 0·4	2	0·07	−0·56	2	4
	Yarmouth	43	22	42·1	33·9	38·0	− 1·2	7	0·17	−0·59	*	*
	Geldeston	46	22	42·7	34·5	38·6	− 0·8	5	0·14	−0·43	4	8
	Cambridge	49	17	42·4	31·3	36·9	− 1·9	4	0·08	−0·39	3	6
	Rothamsted	48	16	41·1	32·7	36·9	− 1·2	7	0·22	−0·34	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	45	10	38·1	29·9	34·0	− 5·3	7	0·71	+0·16	*	*
	Loughborough	49	17	39·4	31·0	35·2	− 3·0	6	0·42	−0·18	*	*
	Leicester	49	16	39·7	33·1	36·4	− 1·5	5	0·43	−0·11	0	0
	Birmingham (Oscott)	47	22	37·9	31·5	34·7	− 3·1	4	0·59	−0·03	*	*
	Cheadle ℳ	45	14	37·1	30·7	33·9	− 4·1	6	0·81	?	*	*
	Churchstoke ℳ											
	Hereford ℳ	49	21	40·1	31·1	35·6	− 3·3	7	0·91	+0·21	*	*
	Cirencester	49	14	41·3	32·0	36·7	− 2·2	7	0·40	−0·33	0	0
	Oxford	50	18	43·1	33·3	38·2	− 1·2	4	0·20	−0·26	1	2
5. ENGLAND, S.	London†	49	25	45·0	36·3	40·7	+ 1·2	4	0·07	−0·42	1	2
	Marlborough ℳ	48	16	40·8	33·6	37·2	− 1·4	7	0·53	−0·17	0	0
	Strathfield Turgiss ℳ	50	18	43·2	34·6	38·9	− 0·2	4	0·15	−0·36	*	*
	Dover	49	29	46·6	36·9	41·8	+ 0·3	3	0·15	−0·65	*	*
	Hastings (St. Leonard's)	48	32	46·0	39·6	42·8	+ 1·4	3	0·15	−0·48	3	6
	Southampton	49	27	45·3	38·1	41·7	+ 2·1	6	0·27	?	3	6
	Hurst Castle	50	24	47·4	37·0	42·2	+ 0·4	6	0·39	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	48	24	40·4	31·5	36·0	− 4·2	4	0·59	?	*	*
	Glasgow	44	15	34·7	26·4	30·6	− 8·4	3	0·32	−0·74	0	0
	Ardrossan	46	18	37·3	24·4	30·9	− 8·1	4	0·33	−0·56	*	*
	Silloth (Cumberland)	49	18	37·2	26·9	32·1	− 7·1	3	0·12	−0·58	5	10
	Douglas (Isle of Man)	47	24	41·4	33·8	37·6	− 3·7	5	0·53	−0·54	7	14
7. ENGLAND, N.W.	Barrow-in-Furness	45	26	39·7	32·3	36·0	− 5·0	3	0·33	?	*	*
	Stonyhurst	46	20	39·3	31·9	35·6	− 3·2	5	0·36	−0·76	0	0
	Blackpool ℳ	47	19	39·2	29·1	34·2	− 6·9	5	0·43	−0·32	2	4
	Manchester	48	17	39·1	32·4	35·8	− 3·6	6	0·62	−0·17	*	*
	Liverpool Obsy (Bidston)	48	17	39·1	30·4	34·8	− 5·9	5	0·48	+0·07	*	*
	Llandudno ℳ	49	26	41·1	34·9	38·0	− 4·2	4	0·23	−0·59	4	8
	Holyhead	49	29	44·1	35·9	40·0	− 3·8	4	0·79	−0·11	*	*
8. ENGLAND, S.W.	Pembroke	49	32	43·4	37·9	40·7	− 2·4	7	0·96	+0·06	0	0
	Arlington (N. Devon)	49	20	43·3	34·3	38·8	− 1·7	5	1·51	?	*	*
	Cullompton ℳ	50	21	43·5	35·0	39·3	− 1·7	6	1·55	?	0	0
	Falmouth	52	36	47·9	41·9	44·9	+ 0·6	7	2·78	+1·84	2	4
	Plymouth	52	24	48·7	38·1	43·4	+ 0·5	7	1·88	+1·08	1	2
	Prawle Point	50	30	47·9	40·3	44·1	+ 1·2	5	0·85	?	*	*
9. IRELAND, N.	Londonderry	49	17	40·7	27·4	34·1	− 6·4	4	0·21	−0·59	*	*
	Mullaghmore	49	27	43·3	33·7	38·5	− 3·2	3	0·17	?	*	*
	Markree Castle	48	13	38·8	25·9	32·4	− 8·5	4	0·07	−0·63	2	4
	Brookeborough	47	13	37·8	25·1	31·5	− 8·3	3	0·64	?	*	*
	Armagh	48	16	36·7	27·6	32·2	− 7·9	3	0·72	+0·09	5	10
	Donaghadee	48	23	43·3	32·3	37·8	− 3·5	4	0·74	?	*	*
10. IRELAND, S.	Dublin	47	13	38·5	27·2	32·9	− 8·4	4	0·96	+0·42	7	15
	Parsonstown	48	10	39·1	23·1	31·1	− 8·9	3	0·41	−0·31	9	17
	Waterford	48	18	41·6	26·4	34·0	? − 8·3	5	1·81	+0·76	*	*
	Roche's Point	50	27	45·6	32·7	39·2	− 3·9	4	0·64	−0·59	*	*
	Valencia	52	26	46·4	33·6	40·0	− 5·5	5	1·07	−0·33	16	30
	Foynes	49	16	36·6	23·6	30·1	−11·7	2	0·27	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, DECEMBER 25, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	48	25	41	35	38	0 (average).	4	3	2 less.	5	11
	2. ENGLAND, N.E.	48	28	42	36	39	1 above.	4	4	3 less.	12	25
	3. ENGLAND, E.	52	28	44	34	39	1 above.	5	7	2 more.	18	35
	4. MID. COUNTIES	54	30	45	36	41	3 above.	5	8	2 more.	14	27
	5. ENGLAND, S.	56	29	48	37	42	2 above.	5	6	1 less.	15	28
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	49	29	44	37	41	1 above.	5	12	1 less.	7	15
	7. ENGLAND, N.W.	50	29	45	38	42	1 above.	5	11	3 more.	8	16
	8. ENGLAND, S.W.	54	30	48	41	45	2 above.	5	13	4 more.	5	8
	9. IRELAND, N.	53	28	45	36	40	1 below.	6	15	7 more.	3	6
	10. IRELAND, S.	55	26	48	37	43	0 (average).	5	11	1 more.	8	15

General Remarks.

Weather has been very changeable and unsettled in all parts of the Kingdom. Showers of rain, sleet, or snow have been experienced on most days, but over the greater part of England the sky has at times been clear.

Temperature has been much higher than that of last week, and in all districts except "Scotland, E." and in Ireland, the values have been from 1° to 3° above the mean. The maxima, which were registered on the 25th over England and central Ireland and on the 20th in Scotland, varied from 48° in the N.E. and N. to 55° in "Ireland, S." and 56° in "England, S." The thermometer over England was generally lowest on the 24th, when it fell to between 28° and 30°, but in "Ireland, S." a reading of 26° was recorded on the 19th, while in "Scotland, E." 25° was reached on the 25th.

Rainfall has been a little less than the mean in Scotland, "England, N.E.", and "England, S.", but rather more in all other districts.

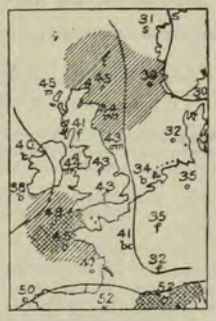
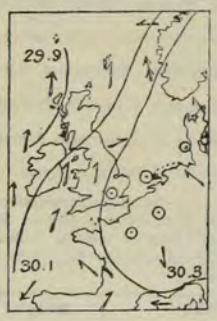
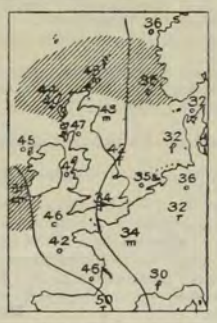
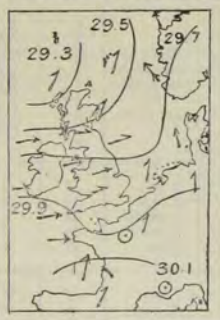
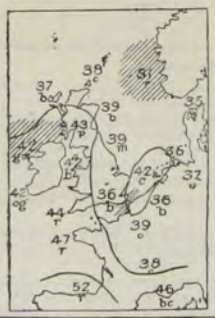
Bright sunshine shows a decrease in "Scotland, E." and "Ireland, S.", but a rather decided increase in most other places. The percentages varied from 6 in "Ireland, N." and 8 in "England, S.W.", to 27 in the "Midland Counties" and 35 in "England, E."

Depressions observed.—At the commencement of the period the barometer was highest over Scandinavia and lowest over south-western France. These conditions, however, gradually changed, and after the 23rd pressure was highest over France and lowest over the northern parts of our Islands and in Scandinavia. Several depressions passed in an easterly or north-easterly direction over on to the northward of our Islands, causing the wind, which was generally between S. and W., to freshen considerably, and occasionally to reach the force of a moderate gale.

R 4816. 470.—12/82. Wt. 233. E. & S.

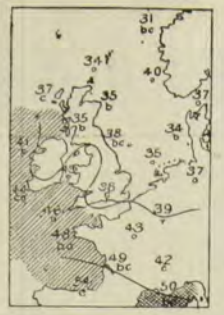
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending December 25, 1882.

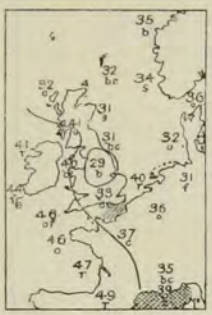
Synoptic Weather Charts.—8 a.m.

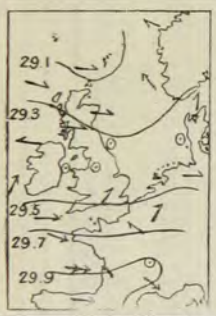
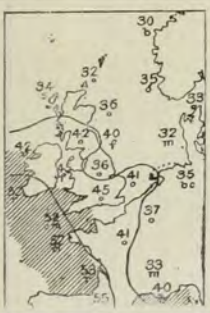
Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.
		**Tuesday, December 19.** *Weather* fine in Ireland and the extreme S.E. of England, cloudy elsewhere, with rain at Aberdeen, and fog over the midland counties. Aurora seen at Oxford in evening. *Temperature* fallen at most stations—quickly over central England and the S. of Ireland; readings ranging from 48° at Scilly, Prawle Point, and Hurst Castle, to 29° at Parsonstown. *Wind* fresh southerly in the extreme N., light south-easterly or easterly elsewhere. *Sea* rough off the N.E. of Scotland as well as at Scilly. *Barometer* rising generally. Readings highest over northern Europe, but areas of low pressure found off our N.W. coasts and over the Bay of Biscay. Rise of barometer continuing all day.
		**Wednesday, December 20.** *Weather* foggy in the S.E. and E. of England, cloudy or overcast elsewhere, with drizzling rain at Stornoway. Rain subsequently falling at all western and northern stations, and fog in S.E. disappearing. *Temperature* fallen over France and the S.E. of England, risen elsewhere; readings ranging from 51° at Valencia to 34° in London. *Wind* light south-easterly in France and the S. of England, southerly or south-westerfy in the W. and N. Strong in force in the W. of Ireland and Scotland. *Sea* rather rough off the N. of Scotland and our S.W. coasts. *Barometer* falling in W. and N., rising elsewhere. Area of highest readings over Baltic, but pressure almost equally high over central France. Depressions passing along our western and northern coasts, and barometer falling generally later.
		**Thursday, December 21.** *Weather* cloudy generally, with showers in many places, but improving somewhat during latter part of day. *Temperature* changed irregularly; readings ranging from 50° at Scilly to 38° at Nairn. *Wind* moderate south-westerly on our northern and eastern coasts, but fresh or strong westerly in the W. and S., and strong south-easterly on the eastern shores of the North Sea. *Sea* rather rough in the W. and S.W. *Barometer* falling generally. Readings high over the Baltic and S. of France, with rather deep depression off the N.W. of Scotland. Disturbance subsequently travelling away north-eastwards, and barometer rising in W.
		**Friday, December 22.** *Weather* fine over Scotland and the greater part of England; cloudy elsewhere, with rain in the S.W. Cloud and rain extending to all parts of our Islands later. *Temperature* fallen generally—quickly in the S.E. of England. Readings ranging from 45° at Jersey to 36° at Donaghadee, Cambridge, and in London. *Wind* south-easterly or easterly in Scandinavia, and also at Valencia and Scilly, south-westerly or westerly elsewhere. Light or moderate in force generally. Subsequently veering to N.W. in the S.W., and blowing strongly. *Sea* rather rough at Mullaghmore, moderate or slight elsewhere. *Barometer* rising N. of Scotland, falling all other districts. Readings highest S. of France, and depression lying off the W. of Norway. Subsidiary disturbance appearing in S.W. later, and new depressions advancing towards our northern coasts.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 23.

Weather fair on the whole, but showery in many places. Sky becoming quite clear at eastern and southern stations later.

Temperature fallen a litttle generally; readings ranging from 46° at Scilly to 34° at Sumburgh Head and Wick.

Wind north-westerly over our Islands and France, but southerly or south-easterly in Scandinavia and Denmark; strong in force at some western and southern stations.

Sea rough on some parts of our western and south-western coasts.

Barometer rising W. and N., falling elsewhere. Highest readings now over Bay of Biscay, with depression off the W. of Norway and subsidiary disturbances over the North Sea. Rise taking place generally later.

Sunday, December 24.

Weather fine over England, cloudy and unsettled elsewhere, with slight snow in Scotland and rain at Mullaghmore and in the S.W. of France; cloud extending over England later.

Temperature fallen generally, and lower than of late; readings ranging from 46° at Scilly to 29° at York. Maximum only 35° in some parts of Scotland, and 38° at Spurn Head and Yarmouth.

Wind light or moderate generally; north-westerly in E. and N., but south-westerly in N.W. and south-easterly in S. Ireland. South-westerly breezes subsequently becoming general.

Sea moderate or smooth.

Barometer falling in W. and S.W., rising elsewhere. Readings still highest Bay of Biscay, with low pressure areas lying to the eastward of our Islands. Fresh disturbances advancing towards our western coasts later, and barometer falling generally.

Monday, December 25.

Weather dull and unsettled in all districts, with snow in the N. of Scotland, and rain or mist in most other localities. Rain subsequently falling generally.

Temperature risen in nearly all districts—quickly in the S. of England. Readings ranging from 52° at Valencia and Scilly to 32° at Sumburgh Head and Wick. Maximum as high as 56° in London.

Wind varying between W. and S.W.; light or moderate in force generally, but strong in the S.W., and blowing gale in Bay of Biscay.

Sea rough in S.W.

Barometer rising S. of France, falling elsewhere. Readings highest Spain, and lowest to the northward of our Islands, but small local depressions formed over various parts of the Kingdom, and more important disturbances appearing in W. in evening.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; → = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	47	30	41·6	36·3	39·0	−1·0	7	0·67	−0·08	*	*
	Stornoway	46	29	40·1	34·1	37·1	−2·3	7	0·92	−0·48	3	7
	Wick	47	26	39·6	35·3	37·5	−1·6	6	0·58	−0·12	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	43	51·0	44·0	47·5	+0·6	7	1·36	+0·40	*	*
	Jersey (Noirmont)	52	42	49·6	43·3	46·5	+3·2	6	1·21	+0·45	11	20

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	46	25	39·4	33·7	36·6	− 1·3	5	0·51	+0·04	*	*
	Aberdeen	46	25	40·9	35·7	38·3	+ 0·7	4	0·15	−0·50	5	11
	Leith	48	31	42·9	34·6	38·8	+ 0·7	3	0·31	−0·09	*	*
2. ENGLAND, N.E.	Alnwick Castle	45	30	41·6	35·3	38·5	+ 0·5	4	0·06	?	*	*
	Shields	?46	29	42·6	35·9	39·3	+ 0·3	3	0·12	−0·49	*	*
	Durham	45	28	41·6	34·6	38·1	0·0	4	0·27	−0·46	13	27
	Scarborough ℳ	47	32	42·3	37·2	40·1	+ 2·1	4	0·38	−0·35	*	*
	York	48	29	43·7	36·9	40·3	+ 1·9	4	0·66	+0·06	11	22
	Spurn Head	45	34	41·6	37·3	39·5	+ 1·1	5	0·59	?	*	*
3. ENGLAND, E.	Hillington ℳ	49	28	42·3	33·5	37·9	− 0·1	5	0·82	+0·21	11	22
	Yarmouth	47	30	42·1	35·1	38·6	− 0·4	3	0·72	−0·02	*	*
	Geldeston	50	30	44·0	34·9	39·5	+ 0·4	6	0·70	+0·17	21	40
	Cambridge	52	31	46·7	32·6	39·7	+ 1·2	4	0·66	+0·23	23	42
	Rothamsted	52	29	46·0	33·1	39·6	+ 1·7	7	0·81	+0·21	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	48	31	43·1	36·3	39·7	+ 0·6	3	0·78	+0·26	*	*
	Loughborough	50	32	45·1	37·0	41·1	+ 3·1	4	0·89	+0·30	*	*
	Leicester	50	32	45·2	36·4	40·8	+ 3·1	5	0·96	+0·39	11	22
	Birmingham (Oscott)	51	32	45·3	35·9	40·6	+ 3·1	4	0·79	+0·18	*	*
	Cheadle ℳ	46	30	43·0	35·8	39·4	+ 1·7	5	1·24	?	*	*
	Churchstoke ℳ	51	31	45·8	37·1	41·5	+ 3·2	4	0·60	?	9	18
	Hereford ℳ	54	31	47·6	36·2	41·9	+ 3·2	7	0·38	−0·32	*	*
	Cirencester	50	30	46·0	36·3	41·2	+ 2·5	5	0·57	−0·19	18	34
	Oxford	51	32	47·3	36·4	41·9	+ 2·8	5	0·66	+0·14	18	34
5. ENGLAND, S.	London†	56	31	48·6	34·1	41·4	+ 2·1	4	0·43	−0·19	8	15
	Marlborough ℳ	51	32	46·0	36·9	41·5	+ 3·1	4	1·09	+0·34	15	28
	Strathfield Turgiss ℳ	54	29	47·4	33·8	40·6	+ 1·7	5	0·56	+0·01	*	*
	Dover	50	33	46·7	36·9	41·8	+ 0·7	5	0·43	−0·37	*	*
	Hastings (St. Leonard's)	50	32	46·8	38·6	42·7	+ 1·6	5	0·51	−0·17	22	41
	Southampton	54	34	48·4	38·6	43·5	+ 4·1	4	0·56	?	14	26
	Hurst Castle	51	35	48·3	39·9	44·1	+ 2·6	6	0·52	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	49	31	44·5	37·1	40·8	+ 0·9	5	2·54	?	*	*
	Glasgow	47	32	42·7	35·7	39·2	+ 0·4	5	0·66	−0·44	4	9
	Ardrossan	48	32	45·0	38·3	41·7	+ 2·7	5	0·55	−0·40	*	*
	Silloth (Cumberland)	47	29	43·0	37·3	40·2	+ 1·2	5	0·76	+0·05	8	17
	Douglas (Isle of Man)	48	32	44·7	38·8	41·8	+ 0·7	6	1·38	+0·28	9	18
7. ENGLAND, N.W.	Barrow-in-Furness	45	33	44·1	38·3	41·2	+ 0·4	3	0·84	?	*	*
	Stonyhurst	47	30	45·2	36·5	40·9	+ 2·3	5	1·06	−0·05	8	16
	Blackpool ℳ	46	31	43·5	37·9	40·7	− 0·2	4	1·03	+0·28	7	14
	Manchester	47	30	43·0	36·4	39·7	+ 0·5	6	1·44	+0·67	*	*
	Liverpool Obsy (Bidston)	49	29	44·9	37·0	41·0	+ 0·5	6	1·09	+0·64	*	*
	Llandudno ℳ	50	38	46·8	40·7	43·8	+ 1·8	4	1·47	+0·66	9	18
	Holyhead	49	38	46·7	41·1	43·9	+ 0·4	4	0·80	−0·14	*	*
8. ENGLAND, S.W.	Pembroke	51	40	47·7	43·0	45·4	+ 2·5	5	1·06	+0·14	4	8
	Arlington (N. Devon)	50	31	46·9	38·0	42·5	+ 2·4	5	2·85	?	*	*
	Cullompton ℳ	53	30	48·5	37·6	43·1	+ 2·1	3	0·71	?	4	7
	Falmouth	53	42	49·0	44·0	46·5	+ 2·4	6	1·68	+0·70	5	9
	Plymouth	54	35	49·9	39·6	44·8	+ 2·0	6	0·71	−0·18	5	9
	Prawle Point	51	36	48·1	41·0	44·6	+ 1·8	6	1·00	?	*	*
9. IRELAND, N.	Londonderry	53	32	49·2	35·3	42·3	+ 1·8	6	1·94	+1·05	*	*
	Mullaghmore	47	37	45·1	39·3	42·2	+ 0·4	6	1·94	?	*	*
	Markree Castle	47	28	44·1	33·2	38·7	− 2·3	7	0·85	+0·13	1	2
	Brookeborough	46	29	42·5	32·4	37·5	− 2·3	5	1·71	?	*	*
	Armagh	47	32	43·4	36·4	39·9	− 0·1	6	1·55	+0·89	5	10
	Donaghadee	46	32	43·0	38·0	40·5	− 0·7	6	0·86	?	*	*
10. IRELAND, S.	Dublin	52	33	46·1	37·6	41·9	+ 0·8	4	1·20	+0·66	10	20
	Parsonstown	52	27	45·6	34·0	39·8	0·0	5	1·36	+0·63	6	12
	Waterford	55	31	47·4	34·6	41·0	− 1·1	6	0·57	−0·53	*	*
	Roche's Point	50	34	47·6	37·9	42·8	− 0·2	6	0·70	−0·69	*	*
	Valencia	54	36	51·3	40·6	46·0	+ 0·6	6	1·75	+0·27	7	13
	Foynes	53	26	48·6	38·1	43·4	+ 1·7	?	?	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT, 1882.

REPORTS RECEIVED TOO LATE FOR INSERTION IN THEIR PROPER PLACES.

No of Report.	For Week ending.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Per-centage of possible duration.
			°	°	°	°	°	°		Inches.	Inches.		
6	February 13	Sumburgh Head	48	37	47·4	38·6	43·0	+4·7	4	0·60	0·00	*	*
7	„ 20	Sumburgh Head	49	28	44·4	32·6	38·5	+0·4	7	1·46	+0·86	*	*
„	„ „	Scarborough	54	32	50·2	38·0	44·1	+4·6	5	0·27	−0·13	*	*
8	„ 27	Sumburgh Head	47	30	44·7	37·6	41·2	+3·0	6	1·10	+0·57	*	*
„	„ „	Laudale (Loch Sunart)	52	36	48·6	43·0	45·8	+5·6	6	1·26	?	*	*
9	March 6	Sumburgh Head	47	28	40·3	31·7	36·0	−2·2	4	0·56	+0·08	*	*
18	May 8	Birmingham (Oscott)	62	39	59·8	42·1	51·0	+0·8	4	1·12	+0·63	*	*
21	„ 29	Leicester	71	48	65·7	49·2	57·5	+3·3	6	0·86	+0·36	40	33
30	July 31	Manchester	69	46	64·4	49·1	56·8	−4·0	4	0·55	−0·20	*	*
32	August 14	Manchester	73	50	71·6	53·5	62·6	+2·2	4	0·28	−0·43	*	*
33	„ 21	Manchester	68	45	63·5	51·3	57·4	−2·6	6	0·88	+0·16	*	*
35	September 4	Waterford	65	46	62·6	51·9	57·3	−1·0	7	1·98	+1·09	*	*
38	„ 25	Birmingham (Oscott)	66	40	60·8	48·6	54·7	+0·7	3	0·74	−0·06	*	*
44	November 6	Marlborough	59	39	54·9	44·0	49·5	+5·0	7	1·36	+0·70	17	26
„	„ „	Waterford	56	36	53·9	41·7	47·8	+0·3	7	1·67	+0·72	*	*
46	„ 20	Laudale (Loch Sunart)	51	32	43·5	34·5	39·0	−2·8	4	1·64	?	*	*
47	„ 27	Foynes	51	32	40·7	35·2	41·0	−1·6	7	1·38	?	*	*
48	December 4	Churchstoke	50	28	43·3	33·3	38·3	−1·3	6	0·38	?	7	13
„	„ „	Manchester	46	27	41·7	32·2	37·0	−3·8	5	0·91	+0·12	*	*
49	„ 11	Llandudno	41	27	36·9	32·1	34·5	−8·3	1	0·21	−0·59	9	17
50	„ 18	Churchstoke	47	11	37·4	30·3	33·9	−4·7	6	1·00	?	1	2
52	January 1, 1883	Waterford	58	38	53·2	45·2	49·2	+7·5	7	1·59	+0·43	*	*
„	„ „ „	Foynes	56	37	54·9	42·6	48·8	+7·2	7	3·10	?	*	*

R 5813. 100 & 470.—3/83. Wt. 233. E. & S.

SUMMARY OF RAINFALL AND TEMPERATURE for the FIRST QUARTER of the YEAR (January to March).

Vol. V., No. 13a. (Issued as part of the Weekly Weather Report for the year 1882.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	14·8	11·3	5·8	7·4	7·1	11·4	9·6	15·4	13·4	16·9	13·7	12·0	14·3	11·7
	1867	10·7	9·5	5·4	5·7	8·1	8·8	8·0	9·9	11·1	15·2	11·8	10·7	11·7	9·7
	1868	19·1	11·7	4·9	5·4	6·7	7·5	9·2	17·6	13·3	11·9	13·0	10·5	13·3	11·1
	1869	11·8	8·9	6·2	6·2	7·7	9·0	8·3	11·4	12·2	14·0	12·1	12·1	12·4	10·1
	1870	6·4	6·7	4·8	3·9	5·1	6·0	5·5	8·8	9·0	10·7	8·6	9·7	9·4	7·2
	1871	9·4	6·9	3·8	3·9	4·8	6·1	5·8	11·7	8·7	10·0	10·7	9·4	10·1	7·8
	1872	8·2	11·2	7·8	6·1	9·8	10·1	8·9	15·2	14·0	19·5	12·7	13·1	14·9	11·6
	1873	7·9	7·2	5·3	5·4	7·1	8·4	6·9	10·0	9·6	14·1	8·8	11·9	10·9	8·7
	1874	11·5	6·5	3·5	3·1	5·7	4·4	5·8	8·6	11·0	12·5	8·4	7·7	9·6	7·5
	1875	8·4	7·0	3·9	3·7	5·8	6·7	5·9	9·8	8·7	12·6	7·1	10·2	9·7	7·6
	Means for 10 years, 1866 to 1875	10·8	8·7	5·1	5·1	6·8	7·8	7·4	11·8	11·1	13·7	10·7	10·7	11·6	9·3
	1876	13·4	9·5	6·3	6·7	8·2	7·5	8·6	12·1	12·0	10·9	10·0	10·0	11·0	9·7
	1877	11·9	9·8	7·1	7·6	8·3	10·7	9·2	14·2	15·4	14·2	13·4	11·4	13·7	11·3
	1878	9·3	4·3	4·9	4·6	3·8	4·9	5·3	11·0	7·3	6·2	8·2	7·9	8·1	6·6
	1879	5·5	7·0	5·2	6·3	6·2	8·3	6·4	8·5	6·7	11·2	6·7	11·4	8·9	7·5
	1880	7·4	5·3	3·1	3·3	4·2	4·6	4·7	9·1	6·2	6·7	7·6	9·9	7·9	6·1
	1881	9·4	7·4	6·2	5·9	6·7	6·8	7·1	9·4	8·6	9·8	7·7	8·7	8·8	7·9
	1882	10·5	5·3	3·1	4·1	5·8	3·7	5·4	11·5	7·8	7·1	8·1	9·8	8·9	7·0
	Means for 17 years, 1866 to 1882	10·3	8·0	5·1	5·2	6·5	7·3	7·1	11·4	10·3	11·9	9·9	10·4	10·8	8·9
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	38·3	38·8	39·1	40·9	40·4	41·9	39·9	40·0	40·6	43·4	39·9	40·3	40·8	40·3
	1867	36·9	37·2	36·8	38·6	38·2	39·2	37·8	37·7	38·6	41·4	38·1	39·9	39·1	38·4
	1868	40·7	41·7	41·1	41·4	41·9	42·0	41·5	42·3	42·4	44·4	42·1	44·3	43·1	42·2
	1869	40·0	40·3	40·6	41·1	41·2	42·0	40·9	42·0	42·1	45·1	42·9	44·6	43·3	42·0
	1870	37·9	37·4	37·1	37·4	38·0	38·2	37·7	38·6	38·7	41·3	39·8	41·6	40·0	38·7
	1871	40·0	39·7	38·8	39·2	40·1	40·3	39·7	40·0	40·0	43·3	41·6	43·4	41·7	40·6
	1872	40·9	40·9	41·3	42·3	42·9	43·7	42·0	42·9	43·3	46·1	42·4	44·5	43·8	42·8
	1873	39·0	38·4	38·5	38·9	39·1	39·9	39·0	39·2	39·7	42·6	39·8	41·0	40·5	39·6
	1874	41·7	41·8	41·3	40·4	41·0	42·0	41·4	42·3	41·8	45·0	42·8	45·2	43·4	42·3
	1875	39·5	39·0	38·8	38·6	39·2	40·2	39·2	39·8	40·2	42·9	41·6	44·6	41·8	40·4
	Means for 10 years, 1866 to 1875	39·5	39·5	39·3	39·9	40·2	40·9	39·9	40·5	40·7	43·6	41·0	42·9	41·8	40·7
	1876	38·7	38·3	39·2	39·0	38·9	40·0	39·0	39·5	39·8	42·4	40·1	43·3	41·0	39·9
	1877	38·4	38·8	40·4	41·7	41·8	43·1	40·7	40·5	41·8	44·9	41·4	45·2	42·8	41·6
	1878	39·4	40·1	40·8	40·6	41·8	41·7	40·7	41·9	42·2	44·2	42·5	45·1	43·2	41·8
	1879	35·8	34·2	35·9	36·5	36·4	37·8	36·1	36·5	36·8	40·8	38·0	40·5	38·5	37·2
	1880	40·6	39·8	39·5	39·2	39·9	40·5	39·9	41·3	40·6	43·5	42·2	44·1	42·3	41·0
	1881	34·4	33·5	34·3	36·1	35·8	38·2	35·4	35·3	36·6	39·9	37·5	39·8	37·8	36·5
	1882	41·8	42·9	42·8	42·1	42·6	43·5	42·6	43·7	43·5	44·9	44·8	46·0	44·6	43·0
	Means for 17 years, 1866 to 1882	39·0	39·0	39·2	39·7	40·0	40·8	39·6	40·2	40·5	43·3	41·0	43·1	41·7	40·5

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 17 years, 1866 to 1882.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
			inches.		inches.		inches.
Rainfall	Driest	1880	4·7	1880	7·9	1880	6·1
	Wettest	1866	9·6	1872	14·9	1866	11·7
			°.		°.		°.
Temperature	Coldest	1881	35°·4	1881	37°·8	1881	36°·5
	Warmest	1882	42°·6	1882	44°·6	1882	43°·0

R 1837. 100.—5/82. Wt. 182. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations:—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E.	1866 to 1875: Fakenham. Beccles. Witham. Bury St. Edmunds. 1876 & 1877: Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations:—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N.	1866 to 1873: Belfast. Milltown (Banbridge). Armagh.† Athlone.* 1874 to 1877: Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S.	1866 to 1873: Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.† 1874 to 1877: Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1882 the means are obtained from the observations published in the Weekly Weather Report.

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* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the SECOND QUARTER of the YEAR (April to June).

Vol. V., No. 26a. (Issued as part of the Weekly Weather Report for the year 1882.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	6·2	4·8	5·2	6·0	6·3	6·7	5·9	5·1	6·3	6·5	6·7	8·2	6·6	6·2
	1867	10·6	8·0	6·8	6·2	6·7	5·8	7·4	10·5	8·3	10·0	10·0	9·3	9·6	8·4
	1868	10·9	6·1	3·7	3·2	3·3	4·1	5·2	7·7	4·4	5·9	6·6	6·3	6·2	5·7
	1869	6·7	5·3	7·5	5·0	7·5	6·6	6·4	4·8	7·6	8·2	7·7	7·8	7·2	6·8
	1870	9·5	4·1	4·3	2·3	2·5	2·4	4·2	7·4	5·7	4·2	6·4	4·6	5·7	4·9
	1871	4·3	6·1	7·5	7·5	7·5	7·7	6·8	8·3	7·7	8·4	7·5	7·7	7·9	7·3
	1872	11·4	10·4	7·4	6·6	8·6	8·5	8·8	11·2	12·0	10·9	9·8	7·6	10·3	9·5
	1873	7·9	5·9	4·8	4·7	5·6	4·3	5·5	5·1	4·7	5·9	6·3	5·1	5·4	5·5
	1874	10·0	4·5	3·4	3·9	3·9	5·3	5·2	5·5	5·0	4·5	6·8	4·2	5·2	5·2
	1875	8·7	5·5	4·2	4·9	6·4	6·0	6·0	6·5	7·6	9·8	7·0	6·5	7·5	6·6
	Means for 10 years, 1866 to 1875	8·6	6·1	5·5	5·0	5·8	5·7	6·1	7·2	6·9	7·4	7·5	6·7	7·1	6·6
	1876	8·4	6·1	6·2	4·9	5·5	4·9	6·0	6·4	7·0	5·5	5·6	5·0	5·9	6·0
	1877	10·1	8·8	6·7	5·6	6·8	6·2	7·4	9·5	8·4	11·2	8·5	10·9	9·7	8·4
	1878	3·7	6·3	7·7	8·2	9·2	8·5	7·3	8·8	8·2	11·7	9·0	13·8	10·3	8·6
	1879	4·5	8·5	8·7	10·2	10·1	10·3	8·7	9·9	8·4	10·4	10·1	11·7	10·1	9·3
	1880	4·9	5·0	6·6	6·2	7·1	5·7	5·9	8·0	6·9	5·4	8·9	8·3	7·5	6·6
	1881	7·2	5·6	4·4	4·3	4·4	4·3	5·0	9·5	8·1	5·7	8·5	8·2	8·0	6·4
	1882	7·4	7·5	9·2	8·2	9·8	7·7	8·3	10·6	10·9	10·3	9·3	9·6	10·1	9·1
	Means for 17 years, 1866 to 1882	7·8	6·4	6·1	5·7	6·5	6·2	6·4	7·9	7·5	7·9	7·9	7·9	7·8	7·1
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	48·2	48·1	48·0	52·2	51·7	52·9	50·2	50·9	50·6	53·0	51·9	51·4	51·6	50·8
	1867	47·2	49·9	48·5	52·7	52·2	52·8	50·6	51·1	51·6	53·6	53·1	52·9	52·5	51·4
	1868	49·7	52·3	52·1	55·1	55·7	54·8	53·3	52·3	53·5	55·0	52·8	54·6	53·6	53·4
	1869	47·7	49·4	49·2	50·9	51·6	51·7	50·1	50·1	50·3	53·5	51·3	52·6	51·6	50·8
	1870	49·5	52·5	51·4	52·8	54·4	53·5	52·4	51·9	52·8	54·3	53·2	53·5	53·1	52·7
	1871	47·2	48·4	47·9	49·5	51·7	51·2	49·3	50·8	50·7	53·7	52·4	53·9	52·3	50·7
	1872	48·2	49·7	49·7	52·0	51·3	51·9	50·6	50·3	51·0	51·9	50·5	51·6	51·1	50·7
	1873	47·9	49·8	49·1	49·8	51·6	51·7	50·0	51·7	51·3	52·5	51·9	53·2	52·1	51·0
	1874	48·4	49·6	49·9	51·3	52·4	52·7	50·7	51·1	51·4	54·0	51·5	54·3	52·5	51·5
	1875	49·3	51·4	51·2	52·4	52·8	52·9	51·7	51·7	52·0	53·1	51·9	53·3	52·4	52·0
	Means for 10 years, 1866 to 1875	48·3	50·1	49·7	51·9	52·5	52·6	50·9	51·2	51·5	53·5	52·1	53·1	52·3	51·5
	1876	48·2	49·7	49·8	51·1	51·3	51·3	50·2	50·3	50·5	52·1	49·8	52·2	51·0	50·6
	1877	46·6	47·5	48·4	50·8	51·1	51·8	49·4	49·1	49·5	52·3	49·3	52·2	50·5	49·9
	1878	48·8	50·6	51·7	53·8	54·3	54·8	52·3	52·5	53·5	53·5	52·6	53·7	53·2	52·7
	1879	45·0	46·8	47·5	48·8	49·0	49·8	47·8	48·4	48·6	50·0	48·4	50·0	49·1	48·4
	1880	47·6	49·9	49·5	51·1	50·9	52·0	50·2	50·5	50·5	52·3	50·4	52·1	51·2	50·6
	1881	46·8	50·1	50·6	52·6	52·9	53·5	51·1	50·8	51·8	52·5	51·8	52·8	51·9	51·5
	1882	47·5	49·4	50·4	52·4	52·2	53·8	51·0	50·7	51·8	52·4	51·2	52·2	51·7	51·3
	Means for 17 years, 1866 to 1882	47·9	49·7	49·7	51·7	52·2	52·5	50·6	50·8	51·2	52·9	51·4	52·7	51·8	51·2

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 17 years, 1866 to 1882.

—		WHEAT DISTRICTS.	GRAZING, &c. DISTRICTS.	GENERALLY.
		inches.	inches.	inches.
Rainfall	Driest	1870 - - - 4·2	1874 - - - 5·2	1870 - - 4·9
	Wettest	1872 - - - 8·8	1872 and 1878 - 10·3	1872 - - 9·5
		°	°	°
Temperature	Coldest	1879 - - - 47°·8	1879 - - 49°·1	1879 - - 48°·4
	Warmest	1868 - - - 53°·3	1868 - - 53°·6	1868 - - 53°·4

R 4015. 470.—10/82. Wt. 233. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E. (1866 to 1875)	Fakenham. Beccles. Witham. Bury St. Edmunds.
3. ENGLAND, E. (1876 & 1877)	Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shifnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N. (1866 to 1873.)	Belfast. Milltown (Banbridge). Armagh.† Athlone.*
9. IRELAND, N. (1874 to 1877.)	Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S. (1866 to 1873.)	Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.†
10. IRELAND, S. (1874 to 1877.)	Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1882 the means are obtained from the observations published in the Weekly Weather Report.

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* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,

ROBERT H. SCOTT,

Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the THIRD QUARTER of the YEAR (July to September).

Vol. V., No. 39a. (Issued as Part of the Weekly Weather Report for the year 1882.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	11·8	10·6	9·3	7·9	11·7	9·7	10·2	15·1	16·1	15·2	12·0	8·9	13·4	11·7
	1867	10·0	10·1	7·1	7·1	7·4	8·6	8·4	12·9	10·4	8·7	11·8	8·8	10·5	9·4
	1868	9·7	10·4	6·0	4·2	7·1	7·2	7·4	9·1	6·7	9·5	8·1	11·0	8·9	8·1
	1869	12.8	7·0	5·8	5·6	6·4	6·0	7·3	10·4	11·5	9·9	9·4	8·5	9·9	8·5
	1870	8·6	5·8	3·5	5·8	4·5	4·8	5·5	6·8	5·0	7·0	7·6	5·7	6·4	5·9
	1871	13·0	8·7	9·7	7·5	10·8	10·3	10·0	9·8	11·8	14·2	11·1	10·5	11·5	10·7
	1872	12·1	12·5	10·4	9·8	9·4	6·6	10·1	16·1	15·8	13·1	14·7	11·2	14·2	12·0
	1873	13·7	11·8	7·2	6·4	6·8	7·3	8·9	15·7	11·8	14·0	14·2	11·8	13·5	11·0
	1874	15·5	11·6	5·8	5·1	7·1	6·3	8·6	13·4	12·6	13·8	11·8	10·1	12·3	10·3
	1875	11·2	8·9	9·1	8·6	11·5	9·4	9·8	11·2	12·7	15·3	9·2	10·6	11·8	10·7
	Means for 10 years, 1866 to 1875	11·8	9·7	7·4	6·8	8·3	7·6	8·6	12·1	11·4	12·1	11·0	9·7	11·3	9·8
	1876	8·9	7·4	8·0	8·1	9·0	7·9	8·2	10·3	11·2	13·8	10·0	9·6	11·0	9·5
	1877	10·8	11·3	10·1	8·1	10·4	7·6	9·7	12·6	15·4	14·5	12·0	10·4	13·0	11·2
	1878	8·0	8·2	8·5	6·9	8 9	7·6	8·0	10·2	11·0	9·5	8·2	10·8	9·9	8·9
	1879	9·8	10·0	8·8	12·2	11·3	11·2	10·6	15·9	13·9	13·3	15·6	12·5	14·2	12·2
	1880	7·6	7·7	10·6	9·9	11·2	9·4	9·4	9·6	10·5	8·0	9·8	10·7	9·7	9·5
	1881	6·5	9·2	10·2	8·6	8·2	8·1	8·5	10·6	10·9	9·3	8·7	10·3	10·0	9·1
	1882	8·0	8·0	7·1	6·9	8·1	7·3	7·6	12·2	11·6	13·3	11·4	10·8	11·9	9·5
	Means for 17 years, 1866 to 1882	10·4	9·3	8·1	7·6	8·8	7·9	8·7	11·9	11·7	11·9	10·9	10·1	11·3	9·9
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	53·2	55·4	55·4	57·6	56·8	58·1	56·1	56·2	56·8	58·4	56·0	57·2	56·9	56·5
	1867	53·7	56·0	55·9	58·8	58·5	59·2	57·0	57·2	58·2	60·0	58·5	59·4	58·7	57·8
	1868	55·0	58·5	58·8	62·5	62·4	62·4	59·9	59·5	61·2	63·6	59·1	60·8	60·8	60·3
	1869	54·5	57·4	57·6	60·2	60·5	60·3	58·4	58·2	59·1	61·4	59·5	59·8	59·6	59·0
	1870	55·6	58·1	57·2	59·6	60·5	60·3	58·6	58·5	5·5·5	61·7	59·6	60·3	59·9	59·2
	1871	55·1	57·4	57·5	59·9	59·5	60·1	58·3	57·3	58·3	60·6	57·2	58·0	58·3	58·3
	1872	54·0	55·9	57·1	59·7	60·1	60·3	57 9	57·7	59·1	60·7	57·9	59·3	58 9	58·3
	1873	54·1	56·4	57·3	59·1	58·7	59·4	57·5	57·4	57 8	59·5	56·6	57·9	57·8	57·7
	1874	54·4	56·7	57·9	60·2	60·3	60·2	58·3	57·8	58·8	60·6	56·9	59·0	58·6	58·4
	1875	54·8	57·0	57·8	59·7	59·6	60·2	58·2	58·4	58·7	60·6	57·5	60·0	59·0	58·6
	Means for 10 years, 1866 to 1875	54·4	56·9	57·3	59·7	59 7	60·1	58·0	57·8	58·8	60·7	57·9	59·2	58·9	58·4
	1876	54·3	56·3	57·7	60·4	60·7	61·1	58·4	57·6	58·8	61·0	56·6	59·4	58·7	58·5
	1877	52·7	55·0	55·5	57·9	57·7	58·2	56·2	55·3	56·0	58·3	55·1	57·3	56·4	56·3
	1878	55·2	58·5	59·1	60·4	60·2	61·6	59·2	59·2	59·5	61·3	58·8	60·7	59·9	59·5
	1879	52·4	54·2	56·2	58·1	57·8	58·7	56·2	55·2	56·2	57·5	54·8	57·5	56·2	56·2
	1880	55·9	57·8	59·5	61·1	60·1	62·1	59·4	58·6	59·8	61·3	58·8	60·1	59·7	59·6
	1881	52·1	56·8	56·8	58·6	57·7	59·4	56·6	54·8	56·4	57·5	55·8	56·4	56·2	56·4
	1882	54·2	56·6	57·7	58·2	57·1	58·8	57·1	56·0	56·8	57·4	55·9	56·2	56·5	56·8
	Means for 17 years, 1866 to 1882	54·2	56·7	57·4	59·5	59·3	60·0	57·8	57·3	58·3	60·1	57·3	58·8	58·4	58·1

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 17 years, 1866 to 1882.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
			inches.		inches.		inches.
Rainfall	Driest	1870	5·5	1870	6·4	1870	5·9
	Wettest	1879	10·6	1872 and 1879	14·2	1879	12·2
			°		°		°
Temperature	Coldest	1866	56°·1	1879 and 1881	56°·2	1879	56°·2
	Warmest	1868	59°·9	1868	60°·8	1868	60°·3

R 4015*a*. 470.—10/82. Wt. 233. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations:—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E. (1866 to 1875)	Fakenham. Beccles. Witham. Bury St. Edmunds.
3. ENGLAND, E. (1876 & 1877.)	Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shifnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations:—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N. (1866 to 1873.)	Belfast. Milltown (Banbridge). Armagh.† Athlone.*
9. IRELAND, N. (1874 to 1877.)	Moville. Milltown. Armagh. Donaghade
10. IRELAND, S. (1866 to 1873.)	Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.†
10. IRELAND, S. (1874 to 1877.)	Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1882 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867. † Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the FOURTH QUARTER of the YEAR (October to December).

Vol. V., No. 52a. (Issued as part of the Weekly Weather Report for the year 1882.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866 - - -	20·6	9·0	6·0	5·9	6·7	6·3	9·1	14·4	15·3	12·4	11·9	9·2	12·6	10·7
	1867 - - -	16·8	5·7	4·8	5·7	5·5	5·8	7·4	10·4	10·3	12·1	9·6	7·5	10·0	8·6
	1868 - - -	19·0	10·3	9·5	7·9	9·7	11·4	11·3	15·1	18·5	18·3	14·0	14·3	16·0	13·5
	1869 - - -	19·8	9·8	7·9	9·1	7·7	8·5	10·5	14·0	13·6	14·3	13·1	9·5	12·9	11·6
	1870 - - -	16·0	9·3	10·5	8·4	8·6	9·5	10·4	10·6	16·0	15·9	14·6	12·2	13·9	12·0
	1871 - - -	15·1	7·3	5·4	4·3	4·2	4·6	6·8	10·7	10·7	12·4	7·6	9·4	10·2	8·3
	1872 - - -	18·0	15·0	11·6	10·6	12·0	16·5	14·0	16·3	17·4	25·1	16·8	17·6	18·6	16·1
	1873 - - -	21·2	9·6	3·5	4·6	4·6	6·5	8·3	11·7	10·6	9·4	7·9	7·7	9·5	8·8
	1874 - - -	17·8	9·2	8·0	7·0	7·4	10·6	10·0	14·4	15·0	16·0	13·0	12·7	14·2	11·9
	1875 - - -	13·7	11·1	10·1	9·6	11·4	11·2	11·2	12·5	12·7	18·5	10·1	13·1	13·4	12·2
	Means for 10 years, 1866 to 1875 -	17·8	9·6	7·7	7·3	7·8	9·1	9·9	13·0	14·0	15·4	11·9	11·3	13·1	11·4
	1876 - - -	13·7	13·2	10·5	7·5	11·7	13·4	11·7	16·0	14·1	19·1	14·4	17·6	16·2	13·7
	1877 - - -	23·1	11·3	6·4	6·4	7·4	10·6	10·9	18·1	17·8	17·2	14·3	14·0	16·3	13·3
	1878 - - -	11·1	8·4	10·3	9·7	8·0	8·5	9·3	11·1	9·0	13·6	11·9	8·2	10·8	10·0
	1879 - - -	8·6	4·8	3·6	3·4	2·7	2·6	4·3	6·2	5·5	4·5	5·0	4·3	5·1	4·7
	1880 - - -	12·8	8·5	9·8	9·3	11·0	13·0	10·7	12·3	13·7	16·1	9·5	12·6	12·8	11·7
	1881 - - -	12·0	7·3	7·4	8·6	8·7	9·8	9·0	15·2	11·9	14·3	12·0	15·0	13·7	11·1
	1882 - - -	11·8	11·4	11·5	11·5	13·0	12·7	12·0	17·1	13·2	19·7	12·6	14·8	15·5	13·6
	Means for 17 years, 1866 to 1882 - - -	15·9	9·5	8·0	7·6	8·3	9·5	9·8	13·3	13·2	15·2	11·7	11·7	13·0	11·3
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866 - - -	43·6	44·2	45·1	46·1	45·7	46·8	45·3	46·0	46·2	50·3	45·4	46·9	47·0	46·0
	1867 - - -	43·9	42·9	42·3	43·0	42·6	43·2	43·0	43·4	42·9	45·8	44·2	44·9	44·2	43·6
	1868 - - -	42·0	42·0	43·1	44·8	44·3	45·5	43·6	43·6	44·2	48·1	44·0	45·5	45·1	44·3
	1869 - - -	40·9	41·5	41·8	42·7	42·9	43·7	42·3	42·5	43·9	46·6	44·7	45·5	44·6	43·3
	1870 - - -	40·3	40·0	40·3	41·6	41·3	41·9	40·9	40·5	41·6	44·4	41·5	43·2	42·2	41·5
	1871 - - -	42·2	42·1	42·3	41·5	41·7	41·8	41·9	42·4	43·0	45·3	43·2	44·7	43·7	42·7
	1872 - - -	42·4	42·0	43·3	44·4	44·2	45·4	43·6	43·6	44·4	47·3	42·8	44·1	44·4	44·0
	1873 - - -	43·4	42·9	44·2	43·9	43·6	44·5	43·8	44·2	44·7	46·9	44·3	46·3	45·3	44·4
	1874 - - -	41·4	39·9	40·8	41·8	41·7	43·0	41·4	40·5	42·3	46·0	42·8	45·7	43·5	42·4
	1875 - - -	42·7	42·1	43·0	42·7	43·0	43·5	42·8	42·8	43·6	45·9	43·5	46·0	44·4	43·5
	Means for 10 years, 1866 to 1875 -	42·3	42·0	42·6	43·3	43·1	43·9	42·9	43·0	43·7	46·7	43·6	45·3	44·5	43·6
	1876 - - -	44·0	43·4	45·2	46·2	44·8	47·2	45·1	44·6	46·1	49·0	45·7	48·1	46·7	45·8
	1877 - - -	42·9	43·3	43·6	44·4	44·1	44·8	43·9	44·5	45·3	49·2	44·4	47·4	46·2	44·9
	1878 - - -	40·5	39·7	39·8	40·8	40·7	42·3	40·6	40·9	41·5	44·5	42·1	42·8	42·4	41·4
	1879 - - -	41·8	41·0	40·3	39·7	39·8	41·2	40·6	42·2	42·0	45·3	43·0	45·0	43·5	41·8
	1880 - - -	39·1	40·4	42·4	43·6	45·6	45·3	42·7	42·2	43·6	47·7	42·9	44·9	44·3	43·4
	1881 - - -	43·2	43·0	43·2	43·5	43·2	45·2	43·6	44·3	44·5	47·7	44·3	46·8	45·5	44·4
	1882 - - -	41·3	40·1	42·6	43·5	42·8	45·5	42·6	42·2	44·0	46·5	42·8	44·6	44·0	43·3
	Means for 17 years, 1866 to 1882 - - -	42·1	41·8	42·5	43·2	43·1	44·1	42·8	43·0	43·8	46·9	43·6	45·4	44·6	43·6

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 17 years, 1866 to 1882.

—		WHEAT DISTRICTS.	GRAZING, &c. DISTRICTS.	GENERALLY.
		inches.	inches.	inches.
Rainfall	Driest -	1879 - - - 4·3	1879 - - - 5·1	1879 - - 4·7
	Wettest -	1872 - - - 14·0	1872 - - - 18·6	1872 - - 16·1
		°	°	°
Temperature	Coldest	1878 and 1879 - 40°·6	1870 - - 42°·2	1878 - - 41°·4
	Warmest	1866 - - - 45°·3	1866 - - 47°·0	1866 - - 46°·0

R 5137. 470.—1/83. Wt. 233. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E.	1866 to 1875: Fakenham. Beccles. Witham. Bury St. Edmunds. 1876 & 1877: Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N.	1866 to 1873: Belfast. Milltown (Banbridge). Armagh.† Athlone.* 1874 to 1877: Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S.	1866 to 1873: Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.† 1874 to 1877: Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1882 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867. † Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the WHOLE YEAR.

Vol. V., No. 52b. (Issued as Part of the Weekly Weather Report for the year 1882.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	53·4	35·7	26·3	27·2	31·8	34·1	34·8	50·0	51·1	51·0	44·3	38·3	46·9	40·3
	1867	48·1	33·3	24·1	24·7	27·7	29·0	31·2	43·7	40·1	46·0	43·2	36·3	41·9	36·0
	1868	58·7	38·5	24·1	20·7	26·8	30·2	33·2	49·5	42·9	45·6	41·7	42·1	44·4	38·3
	1869	51.1	31·0	27·4	25·9	29·3	30·1	32·5	49·6	44·9	46·4	42·3	37·9	42·4	37·0
	1870	40·5	25·9	23·1	20·4	20·7	22·7	25·6	33·6	35·7	37·8	37·2	32·2	35·3	30·0
	1871	41·8	29·0	26·4	23·1	27·3	28·7	29·4	40·5	38·9	45·0	36·9	37·0	39·7	34·1
	1872	49·7	49·1	37·2	33·1	39·8	41·7	41·8	58·8	59·2	68·6	54·0	49·5	58·0	49·2
	1873	50·7	34·5	20·8	21·1	24·1	26·5	29·6	42·5	36·7	43·4	37·2	36·5	39·3	34·0
	1874	54·8	31·8	20·7	19·1	24·1	26·6	29·5	41·9	43·6	46·8	40·0	34·7	41·4	34·9
	1875	42·0	32·5	27·3	26·8	35·1	33·3	32·9	40·0	41·7	56·2	33·4	40·4	42·3	37·2
	Means for 10 years, 1866 to 1875	49·1	34·1	25·7	24·2	28·7	30·3	32·0	44·1	43·5	48·7	41·0	38·5	43·2	37·1
	1876	44·4	36·2	31·0	27·2	34·4	33·7	34·5	44·8	44·3	49·3	40·0	42·2	44·1	38·9
	1877	55·9	41·2	30·3	27·7	32·9	35·1	37·2	54·4	57·0	57·1	48·2	46·7	52·7	44·2
	1878	32·1	27·2	31·4	29·4	29·0	29·5	29·9	41·1	35·5	41·0	37·3	40·7	39·1	34·1
	1879	28·4	30·3	26·3	32·1	30·5	32·4	30·0	40·5	34·5	39·4	37·4	39·9	38·3	33·8
	1880	32·7	26·5	30·1	28·7	33·5	32·7	30·7	39·0	37·3	36·2	35·8	41·5	38·0	34·0
	1881	35·1	29·5	28·2	27·4	28·0	29·0	29·6	44·7	39·5	39·1	36·9	42·2	40·5	34·5
	1882	37·7	32·2	30·9	30·7	36·7	31·4	33·3	51·4	43·5	50·4	41·4	45·0	46·4	39·2
	Means for 17 years, 1866 to 1882	44·5	33·2	27·4	26·2	30·2	31·0	32·1	44·5	42·7	47·0	40·4	40·2	43·0	37·0
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	45·8	46·6	46·9	49·2	48·7	49·9	47·9	48·3	48·6	51·3	48·3	49·0	49·1	48·4
	1867	45·4	46·5	45·9	48·3	47·9	48·6	47·1	47·4	47·8	50·2	48·5	49·3	48·6	47·8
	1868	46·9	48·6	48·8	51·0	51·1	51·2	49·6	49·4	50·3	52·8	49·5	51·3	50·7	50·1
	1869	45·8	47·2	47·3	48·7	49·1	49·4	47·9	48·2	48·9	51·7	49·6	50·6	49·8	48·8
	1870	45·8	47·0	46·5	47·9	48·6	48·5	47·4	47·4	48·2	50·4	48·5	49·7	48·8	48·0
	1871	46·1	46·9	46·6	47·5	48·3	48·4	47·3	47·6	48·0	50·7	48·6	50·0	49·0	48·1
	1872	46·4	47·1	47·9	49·6	49·6	50·3	48·5	48·6	49·5	51·5	48·4	49·9	49·6	49·0
	1873	46·1	46·9	47·3	47·9	48·3	48·9	47·6	48·1	48·4	50·4	48·2	49·6	48·9	48·2
	1874	46·5	47·0	47·5	48·4	48·9	49·5	48·0	47·9	48·6	51·4	48·5	51·1	49·5	48·7
	1875	46·6	47·4	47·7	48·4	48·7	49·2	48·0	48·2	48·6	50·6	48·6	51·0	49·4	48·6
	Means for 10 years, 1866 to 1875	46·1	47·1	47·2	48·7	48·9	49·4	47·9	48·1	48·7	51·1	48·7	50·2	49·4	48·6
	1876	46·3	46·9	48·0	49·2	48·9	49·9	48·2	48·0	48·8	51·1	48·1	50·8	49·4	48·7
	1877	45·2	46·2	47·0	48·7	48·7	49·5	47·6	47·4	48·2	51·2	47·6	50·5	49·0	48·2
	1878	46·0	47·2	47·9	48·9	49·3	50·1	48·2	48·6	49·2	50·9	49·0	50·6	49·7	48·9
	1879	43·8	44·1	45·0	45·8	45·8	46·9	45·2	45·6	45·9	48·4	46·1	48·3	46·9	46·0
	1880	45·8	47·0	47·7	48·8	49·1	50·0	48·1	48·2	48·6	51·2	48·6	50·3	49·4	48·7
	1881	44·1	45·4	46·2	47·7	47·4	49·1	46·7	46·3	47·3	49·4	47·4	49·0	47·9	47·2
	1882	46·2	47·3	48·4	49·1	48·7	50·4	48·3	48·2	49·0	50·3	48·7	49·8	49·2	48·7
	Means for 17 years, 1866 to 1882	45·8	46·8	47·2	48·5	48·6	49·4	47·7	47·8	48·5	50·8	48·4	50·1	49·1	48·4

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding YEARS for the 17 years, 1866 to 1882.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
			inches.		inches.		inches.
Rainfall	Driest	1870	25·6	1870	35·3	1870	30·0
	Wettest	1872	41·8	1872	58·0	1872	49·2
			°		°		°
Temperature	Coldest	1879	45°·2	1879	46°·9	1879	46°·0
	Warmest	1868	49°·6	1868	50°·7	1868	50°·1

R 5138. 470.—1/83. Wt. 233. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E. — 1866 to 1875	Fakenham. Beccles. Witham. Bury St. Edmunds.
3. ENGLAND, E. — 1876 & 1877.	Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N. — 1866 to 1873.	Belfast. Milltown (Banbridge) Armagh.† Athlone.*
9. IRELAND, N. — 1874 to 1877.	Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S. — 1866 to 1873.	Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.†
10. IRELAND, S. — 1874 to 1877.	Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1882 the means are obtained from the observations published in the Weekly Weather Report.

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* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.